

QUALITY SCHOOLS GRANT PROGRAM
2013 Biennium Project Funding Recommendations
2011 Biennium Emergency, Planning, and Project
Grants Report



Department of Commerce

Dore Schwinden, Director

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2013 Biennium Quality Schools Projects Recommended for Funding

The Department of Commerce (Commerce) administers the Quality Schools Grant Program, created by HB 152 (Chapter 377, Laws 2009) and codified at Sections 90-6-801, *et seq.*, MCA. The Quality Schools Grant Program provides a competitive grant program for (1) school facility and technology grants; (2) matching planning grants; and (3) emergency grants for public school districts in Montana (elementary districts and high school districts as defined in 20-6-101, MCA, or a K-12 school district as defined in 20-6-701, MCA).

Funding for Quality Schools grants comes from a school facility and technology special revenue account, which includes a combination of revenue from the timber harvest on common school trust lands, mineral royalties transferred from the guarantee account in Section 20-9-622, MCA, and rental income received from power site leases as provided in Section 77-4-208, MCA.

Quality Schools project grants are available on a competitive basis for: construction of a new school; major repairs or deferred maintenance to an existing school; major improvements or enhancements to an existing school; or information technology infrastructure, including installations, upgrades, or improvements, to an existing school.

Commerce received 74 grant applications for the 2013 Biennium Quality Schools Project Grants. Staff reviewed and ranked the applications based on the criteria set forth in the Program's Application Guidelines and Administration Manual, and prioritized the applications as forth in Section 90-6-811, MCA. Commerce Director Dore Schwinden submitted his final list of recommended projects and the form and amount of financial assistance for each project to the Governor. The Governor reviewed the projects recommended by Commerce and has submitted to the legislature a list of recommendations as to the projects and the form and amount of financial assistance for each project (HB 15, Sesso). The recommendations include 16 energy efficiency projects, 6 projects protecting public health and safety, 3 projects that enhance educational opportunities, 3 code compliance projects, 1 technology project, and 1 project to bring a school into compliance with current accreditation standards. The Governor recommends these 30 projects be funded in the amounts shown below, for a total project grant appropriation of \$11,069,265. The Quality Schools Program statute provides that the Legislature will make the final decisions on funding awards and make the necessary appropriations for those grants.

Individual score sheets for applications and summaries for applications not recommended for funding are available at: <http://commerce.mt.gov/qualityschools/default.mcp.x>.

QUALITY SCHOOLS GRANT PROGRAM
Project Grant Recommendations for the 2013 Biennium

Rank	Applicant	County	Project Description	QS Funds Requested	QS Funds Eligible	Cumulative Proposed Award
1	Big Sandy Public Schools	Chouteau	Lighting Retrofit and Occupancy Sensors	\$ 124,340	\$ 124,340	\$ 124,340
2	Sweet Grass County HS	Sweet Grass	Update/Remodel of Ventilation/ Air Handling System	\$ 207,500	\$ 207,500	\$ 331,840
3	Somers Elementary	Flathead	Replace roof at Somers Middle School	\$ 418,142	\$ 418,142	\$ 749,982
4	Box Elder Elementary	Hill	Four-classroom addition to the elementary school	\$ 799,590	\$ 799,590	\$ 1,549,572
5	Winnett K-12 Schools	Petroleum	Complete new shop building; purchase equipment	\$ 565,450	\$ 314,107	\$ 1,863,679
6	White Sulphur Springs HS	Meagher	Replace boiler with geothermal heating system	\$ 350,000	\$ 350,000	\$ 2,213,679
7	Helena Elementary	Lewis & Clark	ADA Compliance for 5 Schools	\$ 1,429,796	\$ 1,429,796	\$ 3,643,475
8	Gardiner High School	Park	Energy efficiency upgrades	\$ 77,500	\$ 43,694	\$ 3,687,169
9	Centerville Public Schools	Cascade	Boiler Replacement	\$ 148,534	\$ 148,534	\$ 3,835,703
10	Shelby Elementary	Toole	Correct building envelope leakage	\$ 146,904	\$ 146,904	\$ 3,982,607
11	Fair-Mont-Egan Elementary	Flathead	Classroom Addition	\$ 379,110	\$ 379,110	\$ 4,361,717
12	Livingston Elementary	Park	Replace failing roof	\$ 709,336	\$ 709,336	\$ 5,071,053
13	Corvallis K-12 Schools	Ravalli	Construction of a new vocational facility	\$ 1,086,516	\$ 901,318	\$ 5,972,371
14	North Star Public Schools	Hill	Install fire alarm systems	\$ 123,386	\$ 123,386	\$ 6,095,757
15	Choteau Public Schools	Teton	Remedy safety issues identified with the district's food service facilities	\$ 344,400	\$ 344,400	\$ 6,440,157
16	Miles City Elementary	Custer	Temperature controls upgrade	\$ 442,841	\$ 442,841	\$ 6,882,998
17	Shelby High School	Toole	Lighting retrofit	\$ 102,985	\$ 102,895	\$ 6,985,893
18	Rocky Boy Public Schools	Hill	Emergency Generator Replacement	\$ 72,650	\$ 72,650	\$ 7,058,543
19	Whitefish High School	Flathead	Phase I redevelopment of HS campus (gym)	\$ 738,239	\$ 658,019	\$ 7,716,562
20	Colstrip Elementary	Rosebud	Temperature controls upgrade	\$ 329,153	\$ 329,153	\$ 8,045,715
21	Whitehall High School	Jefferson	Roof replacement on High School	\$ 534,232	\$ 534,232	\$ 8,579,947
22	Stanford K-12 Schools	Judith Basin	Boiler Replacement	\$ 220,500	\$ 220,500	\$ 8,800,447
23	Grass Range Public Schools	Fergus	Air-lock doors & breezeway	\$ 38,315	\$ 38,315	\$ 8,838,762
24	Superior K-12 Schools	Mineral	Life Skills classroom and locker room expansion	\$ 521,162	\$ 521,162	\$ 9,359,924
25	Geraldine Public Schools	Chouteau	Energy efficiency improvements	\$ 164,000	\$ 106,900	\$ 9,466,824
26	Bozeman High School	Gallatin	Lighting retrofit	\$ 109,087	\$ 109,087	\$ 9,575,911
27	Frazer Public Schools	Valley	Installation of high efficiency boiler	\$ 243,086	\$ 243,086	\$ 9,818,997
28	Libby K-12 Schools	Lincoln	Replace HS boiler	\$ 391,470	\$ 391,470	\$ 10,210,467
29	Hamilton K-12 Schools	Ravalli	Boiler & heat distribution system replacement	\$ 751,000	\$ 751,000	\$ 10,961,467
30	Bozeman Elementary	Gallatin	Lighting retrofit	\$ 107,798	\$ 107,798	\$ 11,069,265
Totals				\$ 11,677,022	\$ 11,069,265	\$ 11,069,265

**Big Sandy Public Schools
Chouteau County
Statutory Priority #4 (Energy Efficiency Improvements)
Quality Schools Grant Program – 2013 Biennium**

This application received 379 points out of a possible 500 points and ranked #1 out of 66 ranked applications. Commerce recommends a \$124,340 Quality Schools Project Grant to the Big Sandy Elementary and High School Districts for the 2013 Biennium.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Project Grant	\$124,340	98% of Project
Northwestern Energy	Rebate	\$2,877	2% of Project
Project Total		\$127,217	

Project Summary

History – This project is intended to solve energy conservation problems for the Big Sandy School District (F.E. Miley School & High School). Based on a 2009 energy audit and 2010 energy evaluation, these facilities are in need of an energy efficient upgrade to reduce utility costs. Old light fixtures and switches are concerns which will be addressed and fixed by this project.

Problem – The school district has the following deficiencies:

- ☐ Old, high-energy T-12 style-light fixtures
- ☐ Metal-halide gym light fixtures
- ☐ Outdated light switches

Proposed Solution – The proposed project would:

- ☐ Replace outdated light fixtures with energy efficient T-8 models
- ☐ Replace outdated gym lighting with energy efficient compact florescent high-bay fixtures
- ☐ Occupancy sensors in all necessary rooms

**Sweet Grass County High School
Sweet Grass County
Statutory Priority #4 (Energy Efficiency Improvements)
Quality Schools Grant Program Projects
2013 Biennium**

This application received 378.8 points out of a possible 500 points and ranked #2 out of 66 ranked applications. Commerce recommends a \$207,500 Quality Schools Project Grant to Sweet Grass County High School District for the 2013 Biennium.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Project Grant	\$207,500	87% of Project
Sweet Grass Co. HS District	Metal Mines Fund	\$20,000	9% of Project
Sweet Grass Co. HS District	Building Reserve	\$10,000	4% of Project
Project Total		\$237,500	

Project Summary

History – (Comment-Acronyms may raise questions) The current HVAC system serving the Sweet Grass County High School is outdated and uses extreme amounts of energy. The district has conducted ample planning for the facility, including an NCAT Project Review, JGA Site Review, Master Facility Plan, Northwestern Energy Audit, and MKK Energy Audit. The 2009 MKK Audit concluded that “the constant volume multi-zone air handling system, which currently serves most of the building, is extremely energy inefficient and not allowed under current energy codes.” The project will retrofit the HVAC system to increase ventilation, have variable air volume capabilities, and create better control of the system through school wide digital components.

Problem – The school district has the following deficiencies:

- ☐ Current HVAC system is outdated and consuming mass quantities of energy
- ☐ Pneumatic controls are outdated and not properly performing with current system

Proposed Solution – The proposed project would:

- ☐ Retro-fit/replace ventilation systems in FCS, art, and science rooms
- ☐ Convert HVAC multi-zone systems to VAV- including motors, heating coils, digital controls, and variable frequency drive components (7 air handlers in building)
- ☐ Replace pneumatic controls with direct digital controls

**Somers Elementary
Flathead County
Statutory Priority #1 (Public Health and Safety)
Quality Schools Grant Program Projects
2013 Biennium**

This application received 376.5 points out of a possible 500 points and ranked #3 out of 66 ranked applications. Commerce recommends a \$418,142 Quality Schools Project Grant to the Somers Elementary District for the 2013 Biennium.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Project Grant	\$418,142	95% of Project
Somers Elementary School District	General Fund	\$10,402	2.5% of Project
Commerce	Emergency Grant	\$10,020	2.5% of Project
Project Total		\$438,564	

Project Summary

History – Somers Middle School is a building constructed in three phases: The 1950s wing (originally the entirety of the building), the 1960s wing and the 1990s wing. The roof on the two later wings is 25 years old. It is a flat rubber roof that has been repaired numerous times. The Montana State Facilities Condition Assessment conducted in 2008 indicates that the roof has been leaking and needs to be replaced. It states that dry rot is visible, but it was not able to note with detail the extent of mold growth in the sub-roof area. The Flathead County Health Department has since advised the district of the need to replace the roof, sub-roof and ceiling due to the presence of a large amount of mold. The letter from the Health Department outlines the development of mold and the dangers to individuals who spend time within a contaminated building.

The roof has been leaking for some time, but was not detected until the winter of 2008 to 2009 because water had been absorbed by the insulation above the ceiling. When the insulation finally became saturated, the water began dripping into the building. According to an assessment conducted in February 2009, the remedy to the problem will require complete removal and replacement of the roof, insulation, sheathing and ceiling in the two affected wings. When all material has been removed, the extent of the deterioration of the wood joists can be determined and new joists installed where needed.

Problem – The school district has the following deficiencies:

- ☐ Two thirds of the roof on Somers Middle School is damaged and presents a serious threat to the health and safety of students and staff due to the loss of structural integrity and the widespread presence of mold in the wood, insulation and ceilings.

Proposed Solution – The proposed project would:

- ☐ Replace the roof as well as the insulation and ceiling tile that has become water logged and laden with mold due to the constant presence of water.

**Box Elder Elementary
Hill County
Statutory Priority #6 (Enhances Educational Opportunities)
Quality Schools Grant Program Projects
2013 Biennium**

This application received #368.8 points out of a possible 500 points and ranked #4 out of 66 ranked applications. Commerce recommends a \$799,590 Quality Schools Project Grant to the Box Elder Elementary School District for the 2013 Biennium.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Project Grant	\$799,590	56% of Project
Box Elder Elementary School District	Impact Aid Construction Grant	\$636,460	44% of Project
Project Total		\$1,436,050	

Project Summary

History – Due to increasing enrollment, the Box Elder School District had a basement commodity and supply storage area converted to classrooms for students in the 1990's. These classrooms do not have proper lighting or ventilation, and the only fire escape route is up non-regulation flight of stairs, as the classrooms do not have egress windows. Currently, two classes of 8th grade students are receiving core subjects in these classrooms, and are spending 70% of their day in an environment that does not enhance their educational environment. The district proposes a 4 classroom addition to their facility in order to eliminate the use of basement storage space for student classrooms.

Problem – The school district has the following deficiencies:

- ☐ Two classes of 8th grade students are spending 70% of their school day in basement storage spaces converted to classrooms, which do not provide proper ventilation, lighting, or egress windows for fire safety and are not conducive to an educational learning environment.

Proposed Solution – The proposed project would:

- ☐ Build a four classroom addition, which will be located west of the current K-3 addition and will be tied in the school's mechanical room in the K-3 addition. This will provide classrooms for two 8th grade classes, a third class of 1st graders, and the anticipated incoming kindergarten class.

Winnett K-12 Schools
Petroleum County
Statutory Priority #5 (Technology Needs)
Quality Schools Grant Program Projects
2013 Biennium

This application received 355.5 points out of a possible 500 points and ranked 5 out of 66 ranked applications. Commerce recommends a \$120,050 Quality Schools Project Grant to Winnett K-12 School District for the 2013 Biennium.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Project Grant	\$120,050	99% of Project
Winnett K-12 School District	General Fund	\$1,000	1% of Project
Partners in Education	General	\$250	<1% of Project
Project Total		\$121,300	

Project Summary

History – The current vocational equipment available to students in the Winnett School District is outdated and does not provide the proper training for students who wish to pursue technical careers in vocational fields. The students need new technology and industry training in order to be qualified for today's job market.

Problem – The school district has the following deficiencies:

- ☐ Current vocational equipment is outdated and not up to current technological standards.

Proposed Solution – The proposed project would:

- ☐ Provide the students with equipment to become technologically literate with industry standards and better prepare them for current and future job opportunities.
- ☐ Equipment will include: Industry Welders, Media Blaster, PlasmaCam CNC Plasma Cutter with applicable software, and VMC 1300 CNC Mill with accessories.

**White Sulphur Springs High School
Meagher County
Statutory Priority #4 (Energy Efficiency Improvements)
Quality Schools Grant Program Projects
2013 Biennium**

This application received 355.3 points out of a possible 500 points and ranked #6 out of 66 ranked applications. Commerce recommends a \$341,000 Quality Schools Project Grant to White Sulphur Springs High School District for the 2013 Biennium.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Project Grant	\$341,000	49% of Project
White Sulphur Springs High School District	Building Reserve Levy	\$250,000	35% of Project
Charles M Bair Trust	Grant	\$50,000	7% of Project
White Sulphur Springs High School District	Existing Building Reserve	\$40,936	6% of Project
Commerce	Quality Schools Planning Grant	\$23,744	3% of Project
Project Total		\$705,680	

Project Summary

History – White Sulphur Springs High School and Junior High is a single building currently enrolling 107 students. The original building was constructed in 1957 with a 4,500 square foot Junior High addition added on in 1966. The current boiler is the original unit and extensive repairs were completed in 1989. These repairs cost the District about \$19,000. Since then, additional repairs and modifications have been made at the cost of over \$20,000. In the past two years, the White Sulphur Springs boiler inspector has noted concern in regards to the condition of the mud legs in the high school boiler. During the inspection in August 2009, the inspector cited serious corrosion in the mud legs of the boiler and indicated the boiler would need to be replaced in two or three years. Based on information from the inspector, current regulations governing the repair of mud legs require more clearance between welds used to repair the mud legs and the stay bolts that are used in the boiler, than what is available. Essentially, it is no longer possible to repair the boiler. Boiler inspection reports confirm this explanation. The District plans to conserve energy by utilizing the nearby hot springs to construct a cutting edge preheating system.

Problem – The school district has the following deficiencies:

- ❑ The 53-year-old boiler has serious corrosion on the mud legs. Mud legs must be replaced when they become corroded to the point they are in danger of leaking. Repair involves cutting the old mud legs off and welding new ones in place. The placement of the stay bolts in the firebox and the location of the welds from prior repairs prohibit installation of new mud legs under current regulations.
- ❑ The current steam heaters are original to the building and many cannot be controlled by individual classrooms. Some of the units are only marginally effective in heating the room and none of the units have proper ventilation.

Proposed Solution – The proposed project would:

- ❑ Remove the old boiler and replace with a new energy efficient system. This will require upgrading the gym envelope with additional insulation so the new system can be properly sized.
- ❑ Convert the old steam heating system to hot water. This will not require a new distribution system, but will necessitate the installation of new cabinet heaters in individual classrooms. These would be controlled by units in each classroom as well as managed by a computer-controlled building management system.

Helena Elementary
Lewis & Clark County
Statutory Priority #2 (Code Compliance)
Quality Schools Grant Program Projects
2013 Biennium

This application received 351.5 points out of a possible 500 points and ranked #7 out of 66 ranked applications. Commerce recommends a \$1,311,533 Quality Schools Project Grant to the Helena Elementary District for the 2013 Biennium.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Project Grant	\$1,311,533	58% of Project
Helena Elementary School District	Building Reserve	\$933,980	42% of Project
Project Total		\$2,245,513	

Project Summary

History – Currently, the facilities in Helena Elementary School District do not provide equal accessibility to educational services that fall under the purview of primary goods and services pursuant to the Americans with Disabilities Act to all students, staff and community members. While all of the District Facilities have accessibility deficiencies, the five K-5 facilities require elevators and/or lifts to provide access to essential services (library, gymnasium, cafeteria, music, and/or playground) for disabled students or individuals. The district conducted an ADA Self-Evaluation Report in 2004, which identified ADA violations throughout the district, including the proposed improvements.

Problem – The school district has the following deficiencies:

- ❑ Jefferson Elementary School: Non-compliant access to first and second floors (split-level design). Barriers include stairs and ramps that are too steep (non-compliant). Essential services are not available including classrooms, offices, library, gym, cafeteria, and playground equipment.
- ❑ Broadwater Elementary School: Non-compliant access to lower-level (sub-grade). Barriers include stairs and ramps that are too steep (non-compliant). Essential services are not available including classrooms, library, gym, cafeteria, and playground equipment.
- ❑ Bryant Elementary School: Non-compliant access to upper or lower level. Barriers include stairs at the main entry and to lower levels. Essential services not available include the classrooms, office, music room, gymnasium, cafeteria, and playground equipment.
- ❑ Hawthorne Elementary School: Non-compliant access to first and second floors (split-level design). Barriers include ramps that are too steep (non-compliant). Essential services not available include all classrooms, office, library, and playground equipment.
- ❑ Central Elementary School: Non-compliant access to lower level (sub-grade) and second floor. Barriers include stairs from main floor to both the upper and lower levels. Essential services not available include classrooms, library, cafeteria, gymnasium, and playground equipment.

Proposed Solution – The proposed project would provide:

- ❑ Jefferson Elementary: Main entry re-location, elevator installation, restroom improvements, door hardware replacement, signage, playground improvements, and associated work.
- ❑ Broadwater School: Elevator installation, restroom improvements, door hardware replacement, signage, playground improvements, and associated work.
- ❑ Bryant Elementary School: Elevator installation, chair lift at main entry, restroom improvements, door hardware replacement, signage, playground improvements, and associated work.
- ❑ Hawthorne Elementary School: Elevator and chair lift installation, restroom improvements, door hardware replacement, signage, playground improvements, and associated work.
- ❑ Central Elementary School: Elevator installation, restroom improvements, door hardware replacement, signage, playground improvements, and associated work.

**Gardiner Public Schools
Park County
Statutory Priority #4 (Energy Efficiency Improvements)
Quality Schools Grant Program Projects
2013 Biennium**

This application received 346 points out of a possible 500 points and ranked #8 out of 66 ranked applications. Commerce recommends a \$43,694 Quality Schools Project Grant to Gardiner Elementary and High School Districts for the 2013 Biennium.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Project Grant	\$43,694.00	75% of Project
Gardiner Public School District	Building Reserve	\$14,563.00	25% of Project
Project Total		\$58,257.00	

Project Summary

History – The proposed project involves major energy efficiency improvements and enhancements to an already existing school building, which houses Gardiner High School, Gardiner grades 7-8 and Gardiner Elementary School. The primary building was constructed in 1984 after a fire destroyed the original building. A major addition was constructed in 1998. The building is a K-12 educational facility and includes classrooms, administration area and offices, a full gymnasium and weight room, and specialty classroom spaces such as industrial arts and consumer science. Planned components of this project are: to install programmable, building wide system controls for the schools heating system; to replace all older and inefficient light fixtures in the classrooms, common areas, and gymnasium with energy efficient lighting; and to retrofit lighted exit signs with LED lamps.

Note: The proposed solution does not address the lighting portion of this project because this is considered a separate project. Therefore, those deficiencies were not taken into consideration in the scoring of this application.

Problem – The school district has the following deficiencies:

- ☐ Building lacks a central control system for the heating and HVAC system.

Proposed Solution – The proposed project would:

- ☐ Install building wide system controls for the schools heating system.

Centerville Public Schools
Cascade County
Statutory Priority #4 (Energy Efficiency Improvements)
Quality Schools Grant Program Projects
2013 Biennium

This application received 344.5 points out of a possible 500 points and ranked 9 out of 66 ranked applications. Commerce recommends a \$148,534 Quality Schools Project Grant to Centerville Elementary and High School Districts for the 2013 Biennium.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Project Grant	\$148,534.00	94% of Project
Centerville Public School District	Deferred Maintenance	\$10,000.00	6% of Project
Project Total		\$158,534.00	

Project Summary

History – Currently, Centerville's facility is heated with an oversized boiler that was donated by Malmstrom Air Force Base in 1981 as surplus equipment. The main boiler plant consists of a 5,320,000 BTU/H oil fired boiler with a pair of 400 GPM 7.5 HP main pumps. The boiler is grossly oversized for the facility and operates inefficiently due to its large size and excessive cycling. The boiler is designed to heat a 150,000 square foot building and the Centerville facility is just less than 56,000 square feet in size.

Problem – The school district has the following deficiencies:

- ☐ Boiler is much too large for the facility resulting in inefficient operation.

Proposed Solution – The proposed project would:

- ☐ Install a new boiler that is matched to the facilities needs and specifications.

**Shelby Elementary
Toole County
Statutory Priority #2 (Code Compliance)
Quality Schools Grant Program Projects
2013 Biennium**

This application received 344 points out of a possible 500 points and ranked #10 out of 66 ranked applications. Commerce recommends a \$146,904 Quality Schools Project Grant to Shelby Elementary District for the 2013 Biennium.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Project Grant	\$146,904	100% of Project
Project Total		\$146,904	

Project Summary

History – The Shelby Elementary/Middle School was built in 2002 and is 57,000 square feet. The school is a steel building with CMU block walls. After construction of the building, cold air was discovered to be infiltrating the second floor's grade school rooms. The cold air has caused the room temperature to become so cold that the heating system cannot maintain a comfortable temperature. Because of infiltrating cold air, the fire suppression system has frozen and pipes have broken. Hence, the system has had to be repaired and refilled. An architectural report was completed in February of 2010 and records the significant fluctuation of room temperature in areas of the second floor. In addition to the safety concern of having an inoperable fire sprinkler system, the facility is also struggling with excessive energy usage because the heating and ventilation systems have to operate in overdrive to keep up with air infiltration.

During the architectural inspection, a violation of the National Fire Prevention Agency (NFPA) Standards and International Building Codes (IBC) was discovered. The deficient fire separation walls could allow the spread of fire and smoke. The fire sprinkler system has to be drained in winter months to prevent the pipes from bursting and causing water damage to the building structure. This poses a safety risk, as well as a code issue for the school. During these months, the district has to provide a 24/7 fire watch to protect the facility and occupants.

Problem – The school district has the following deficiencies:

- ☐ A serious leak in the building envelope allows freezing air to infiltrate the classrooms and dead air space during winter months. An architectural inspection suggests that exterior gypsum soffit board joints/seams were not tightly fitted or taped/sealed and are thus allowing air to penetrate through the vented metal soffit, then through the joints into overhang dead air space.
- ☐ The area containment partition does not extend to the underside of the roof assembly. This is a life safety and code issue. According to the IBC, this partition must have fire resistance and extend to the underside of the roof sheathing. Any penetrations of the partition must be fire stopped with fire caulking or mechanically stopped with rated dampers. The partition between classroom 210 and the common area 201 not constructed to reflect architectural drawings. It must be corrected to comply with code.

Proposed Solution – The proposed project would:

- ☐ Fire tape all joints and corners of new and existing gypsum wallboard surfaces, including area containment partitions, fire tape above the suspended ceiling and paint below the ceiling, patch holes in exterior wall and fill the space with blown-in insulation.

**Fair-Mont-Egan Elementary
Flathead County
Statutory Priority #1 (Public Health and Safety)
Quality Schools Grant Program Projects
2013 Biennium**

This application received 343.8 points out of a possible 500 points and ranked 11 out of 66 ranked applications. Commerce recommends a \$379,110 Quality Schools Project Grant to Fair-Mont-Egan Elementary District for the 2013 Biennium.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Project Grant	\$379,110.00	75% of Project
Fair-Mont-Egan Elementary School District	Capital Investment	\$67,430.00	13% of Project
Fair-Mont-Egan Elementary School District	Flex Fund	\$12,677.00	3% of Project
Fair-Mont-Egan Elementary School District	Building Reserve	\$27,802.00	5% of Project
DNRC	Grant	\$10,000.00	2% of Project
Flathead Electric	Grant	\$10,000.00	2% of Project
Project Total		\$507,019.00	

Project Summary

History – The district would like to build two new classrooms to provide space for Special Education, Title 1, and differentiated learning tutoring. In order to meet this need, the district requires adequate spaces to work with students in small groups and individually. The school was built in 1968 and does not have the space to meet the instructional needs for students. These students are being tutored in the lunch room, on the stage, in the hallways and a small room. They are shuttling from one building to the other with teachers and aides carrying their supplies. In order to meet this need, the master plan requires removal and relocation of a 40 year old septic system located where the classroom will be placed. The correction of the safety problems associated with the storm water runoff and snowmelt will also be resolved with the engineering solutions proposed.. (Comment: the text speaks to removal the septic system and then switches to storm-water, what is the connection?)

Problem – The school district has the following deficiencies:

- ☐ The district does not have adequate space available for their Special Education and Title 1 classrooms.

Proposed Solution – The proposed project would:

- ☐ Add two classrooms for Special Education and Title 1 classes as well as remove and relocate their 40 year old septic system.

**Livingston Elementary
Park County
Statutory Priority #1 (Public Health and Safety)
Quality Schools Grant Program Projects
2013 Biennium**

This application received 335.5 points out of a possible 500 points and ranked #12 out of 66 ranked applications. Commerce recommends a \$709,336 Quality Schools Project Grant to Livingston Elementary District for the 2013 Biennium.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Project Grant	\$709,336	86% of Project
Livingston Elementary School District	Budgeted funds	\$101,367	12% of Project
Livingston Elementary School District	Salary/Labor	\$15,100	2% of Project
Project Total		\$825,803	

Project Summary

History – A Facilities Condition Inventory was conducted in 2008 at Livingston Public Schools. The report noted some deficiencies for the roof system covering at the Sleeping Giant Middle School. It was noted that there was a history of leaks among other issues. Since the inventory was performed, the roofing system has continued to deteriorate. Leaks occur regularly at both the Middle School and the conjoined East Side Elementary School. A roof inspection was performed on June 8, 2010 to provide updated information on the condition of the roof. The report from the inspection states that, "roofing shingle failure is continuing and endemic to over 95% of the roof." A musty smell, possibly indicating the presence of mold, was detected during the inspection, and the engineers found physical evidence of actively growing mold in leak areas. It was also discovered that the continual leaks are causing breakdown of the drywall in the ceiling area that serves as a fire stop. The total area of the roof is 72,000 square feet covering both facilities. Facilities staff diligently repairs and/or replaces damaged shingles and interior damage, but these efforts are being overcome by the widespread failure of the roofing materials. The estimated cost of not immediately replacing the roof and continuing with repairs is \$90,000 per year. The failing roof is also causing energy loss estimated to cost about \$6,000 per year.

Problem – The school district has the following deficiencies:

- ☐ A failing roof system involving curling and lifting tiles, water damage from infiltration at vents, standing water under the shingles, missing shingles, and gaps between roof penetrations and the roofing. These issues have caused interior damage as observed through water stains on acoustic ceiling tiles and on the walls, compromised drywall and drywall tape, a musty smell indicating the presence of mold and water stains on light fixtures and lockers.

Proposed Solution – The proposed project would:

- ☐ Remove and replace the existing roof system to eliminate the safety and potential public health concerns.

**Corvallis K-12 Schools
Ravalli County
Statutory Priority #3 (Accreditation Standards)
Quality Schools Grant Program Projects
2013 Biennium**

This application received #331 points out of a possible 500 points and ranked #13 out of 66 ranked applications. Commerce recommends a \$901,318 Quality Schools Project Grant to Corvallis K-12 School District for the 2013 Biennium.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Project Grant	\$901,318	85% of Project
Corvallis K-12 School District	State School Funds	\$25,000	2% of Project
Corvallis K-12 School District	Local Levy Funds	\$59,714	6% of Project
Corvallis K-12 School District	State & Local Funds	\$69,000	6% of Project
Northwestern Energy	Rebate	\$5,000	1% of Project
Project Total		\$1,060,032	

Project Summary

History – The Corvallis School District facilities have been developed over a 90-year time period, which has resulted in vocational facilities that lack separation between welding and wood working areas and congested learning environments for both vocational education and science. The small engines classroom is located in a separate building 400 feet away, which leaves staff and students isolated from the main school structure. The current configuration also does not allow for students to simultaneously take courses in woods, metals, welding and CAD. In a rural agricultural community with a need for technical vocations, this is a problem.

Note: The proposed solution does not address the renovation of the existing vocational classrooms to be converted to science classrooms, which are proposed to be addressed in the next phase of improvements. Therefore, those deficiencies were not taken into consideration in the scoring of this application.

Problem – The school district has the following deficiencies:

- ☐ Currently, career course offerings in metals, welding, CAD, and woods may not be taken simultaneously. (10.55.1701, MCA).
- ☐ Space constraints are unsafe for the current vocational facility.
- ☐ Small engines shop is isolated from the main school building.
- ☐ Current science labs are too small to provide safe conditions.

Proposed Solution – The proposed project would:

- ☐ Construct a 6,871 sq ft. vocational education facility to house CAD classroom, woods/metals classroom, and a small engines classroom. This structure will allow for future expansion of these spaces.
- ☐ Renovate existing vocational education space to two science labs (Phase II, not included in grant).

North Star Public Schools
Hill County
Statutory Priority #1 (Public Health and Safety)
Quality Schools Grant Program Projects
2013 Biennium

This application received 330.8 points out of a possible 500 points and ranked #14 out of 66 ranked applications. Commerce recommends a \$123,386 Quality Schools Project Grant to North Star Elementary and High School Districts for the 2013 Biennium.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Project Grant	\$123,386	100% of Project
Project Total		\$123,386	

Project Summary

History – The North Star K-6 facility in Gildford was constructed in 1959 with a fire alarm system. No updates to the system have taken place since construction. A music room addition was completed in the 1960s and an art/shop building was constructed in 1970. The fire alarm system was not expanded in either instance. The 7-12 facility in Rudyard was built in two parts, with the west end completed in 1928 and the East end in 1955. The fire alarm system in this facility is original and has not been updated. A shop building was constructed in 1960 and a music room was added in 1995. Similar to the elementary facility, the fire alarm system was not expanded into these areas. The district's fire alarm systems are not monitored externally and are noncompliant with applicable codes and standards.

North Star Schools perform regular fire alarm drills throughout the year and have found that 95% of the time the students in the art, shop and music areas did not hear the fire alarm and did not evacuate the building. Students and staff in the music room rely on alarms in the rest of the building and cannot hear them if they are performing. In addition, the shop/art buildings have no fire alarm system to activate in the event of a fire. The Deputy State Fire Marshal has confirmed these findings and recommends updating the fire alarm systems.

Problem – The school district has the following deficiencies:

- ☐ The shop and art buildings are not currently protected by a fire alarm notification of any kind.
- ☐ The music room additions do not have adequate audibility to notify occupants in the event of a fire alarm in the building.

Proposed Solution – The proposed project would:

- ☐ Install a new fire alarm system, smoke and heat detectors, and fire alarm remote announcers in both the high school and elementary facilities.

Choteau Public Schools
Teton County
Statutory Priority #1 (Public Health and Safety)
Quality Schools Grant Program Projects
2013 Biennium

This application received 330 points out of a possible 500 points and ranked #15 out of 66 ranked applications. Commerce recommends a \$344,400 Quality Schools Project Grant to Choteau Elementary and High School Districts for the 2013 Biennium.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Project Grant	\$344,400	95% of Project
Choteau Public School District	Building Reserve	\$20,000	5% of Project
Project Total		\$364,400	

Project Summary

History – The Choteau Public Schools kitchen facility was built in 1951 and has had no major updates or improvements since that time. The school district has identified a list of safety issues and code deficiencies that require updates through several inspection reports including: 2010 Fire Inspection Safety Report, 2010 Insurance Walk-Through, 2010 Food Inspection Report, and Facility Maintenance Report. The main areas in need of attention pertain to the delivery loading & unloading zone, dry and frozen storage areas, food preparation and serving areas, dishwashing area, and the current restroom attached to the kitchen area.

Problem – The school district has the following deficiencies:

- ☐ Loading/unloading & garbage trucks back onto the K-12 playground for delivery and pick-up
- ☐ Current restroom is not ADA compliant
- ☐ Exterior freezer is located outdoors and is unsecure
- ☐ Walk in cooler lacks adequate space
- ☐ Poor kitchen lay-out
- ☐ Food prep area is non-compliant with HACCP
- ☐ Current food storage creates rodent problems

Proposed Solution – The proposed project would:

- ☐ Address code & fire safety deficiencies
- ☐ Relocation of delivery unloading zone & garbage pick-up
- ☐ Expansion for increased & secure food storage and freezer
- ☐ Ergonomic improvements for staff
- ☐ ADA compliant restroom

**Miles City Elementary
Jefferson County
Statutory Priority #4 (Energy Efficiency Improvements)
Quality Schools Grant Projects
2013 Biennium**

This application received 318.8 points out of a possible 500 points and ranked 16 out of 66 ranked applications. Commerce recommends a \$442,841 Quality Schools Project Grant to the Miles City Elementary District for the 2013 Biennium.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Project Grant	\$442,841.00	97% of Project
Miles City Public School District	Flex Fund	\$15,000.00	3% of Project
Project Total		\$457,841.00	

Project Summary

History – At Miles City’s Washington School, the problems being addressed involve the replacement of the fan ventilation system and the room radiator controls, the installation of a gymnasium fan frequency drive, and updating the controls for the entire school. Presently, the ventilation system for the building is non-operational due to the age of its original 1920s to 1930s equipment. The failed steam radiator valves are a source of overheating in the classrooms, and occupants frequently open windows to remedy the problem. The replacement of the radiation steam valves and installation of new DDC room controls projects would result in increased comfort, decreased maintenance needs, and decreased energy usage. Additional energy savings would be realized by replacing pneumatic controls with electronic controls.

Problem – The school district has the following deficiencies:

- ☐ Building ventilation system is non-operable and the controls are obsolete.

Proposed Solution – The proposed project would:

- ☐ Replace the fan ventilation system and room radiator controls, install gymnasium fan frequency drive, and update the controls for the entire school.

Shelby High School
Toole County
Statutory Priority #2 (Code Compliance)
Quality Schools Grant Program Projects
2013 Biennium

This application received 316 points out of a possible 500 points and ranked 17 out of 66 ranked applications. Commerce recommends a \$102,895 Quality Schools Project Grant to the Shelby High School District for the 2013 Biennium.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Project Grant	\$102,895.00	100% of Project
Project Total		\$102,895.00	

Project Summary

History – Shelby High School has made upgrades throughout the years to become more energy efficient. A lighting project was done in 2002, which improved portions of the school's lighting. The lighting that has not been upgraded is costing the school additional dollars in energy costs each year. If the school is able to upgrade these lights, they will realize substantial cost savings. The lighting upgrade will remove all T12 lighting and upgrade it to T8 lighting. Classrooms, entry foyers, stairwells, offices and the gymnasium would be upgraded in this project.

Problem – The school district has the following deficiencies:

- ☐ Parts of the Shelby High School building are still using inefficient T12 lighting. These lights are not allowing the school to realize peak energy efficiency.

Proposed Solution – The proposed project would:

- ☐ Remove all T12 lighting and replace with energy efficient T8 lighting.

**Rocky Boy Public Schools
Hill County
Statutory Priority #1 (Public Health and Safety)
Quality Schools Grant Program Projects
2013 Biennium**

This application received 312 points out of a possible 500 points and ranked 18 out of 66 ranked applications reported. Commerce recommends a \$72,650 Quality Schools Project Grant to the Rocky Boy Elementary and High School Districts for the 2013 Biennium.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Project Grant	\$72,650.00	94% of Project
Rocky Boy Public School District	Impact Aid	\$5,000.00	6% of Project
Project Total		\$77,650.00	

Project Summary

History – The Rocky Boy Public School's 80kW emergency power generator was determined through a technical evaluation by the Rocky Boy Health Board, L'Heureux Page Werner Consulting, RBPSD Superintendent, and other relevant parties, to be insufficient for the facility's current emergency power needs. For instance, only the boilers and some of the lights are serviceable by this system. To meet the school's basic and emergency energy needs for the sewer and heating systems, the requested generator must have a capacity of 200Kw.

Problem – The school district has the following deficiencies:

- ☐ The Rocky Boy School's current emergency generator is too small to handle the school's emergency power needs.

Proposed Solution – The proposed project would:

- ☐ Replace the current emergency generator with a new generator with a capacity of at least 200kW.

**Whitefish High School
Flathead County
Statutory Priority #6 (Enhance Educational Opportunities)
Quality Schools Grant Program Projects
2013 Biennium**

This application received 304 points out of a possible 500 points and ranked #19 out of 66 ranked applications. Commerce recommends a \$658,019 Quality Schools Project Grant to the Whitefish High School District for the 2013 Biennium.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Project Grant	\$658,019	60% of Project
Whitefish High School District	Building Fund 260	\$250,000	23% of Project
Whitefish High School District	Other	\$80,220	7% of Project
PAWS, Boosters, PTA	Donation	\$25,000	2% of Project
Local Foundations	Grants	\$25,000	2% of Project
Local Businesses	Corporate Sponsorship	\$20,000	2% of Project
CTA Architects	In-Kind	\$16,500	2% of Project
Martel Construction	In-Kind	\$10,000	1% of Project
Flathead Electric Co-Op	Grant	\$10,000	1% of Project
Local Consultants	In-Kind	\$2,500	<1% of Project
Whitefish High School District	Operating Budget	\$1,000	<1% of Project
Project Total		\$1,098,239	

Project Summary

History – The renovation of the high school campus is the top priority of the Whitefish School Board. The existing facilities date back to 1954 and have outlasted their life expectancy. The configuration of the campus is outmoded and limits the District’s ability to deliver 21st Century education. Two recent bond measures have failed due to competition from other initiatives. This project is the first phase of a multi-year master plan. It includes the renovation and adaptation of 18,000 square feet of existing facilities including the gymnasium. The facilities will be renovated cost-effectively and adapted to support performing arts, large group assembly, virtual instruction, collaborative classes, special needs programming and extra-curricular programs. The project solves significant existing health and safety hazards that put portions of the facilities at risk of being removed from service.

Problem – The school district has the following deficiencies:

- ☐ Gymnasium facility does not meet current code in several areas, such as having required exits, air exchange, seating stability, aisle width, fire alarm system and exit lighting.
- ☐ Pneumatic controls operate constantly.
- ☐ Air handlers are original and have exceeded their useful life.

Proposed Solution – The proposed project would:

- ☐ Install new mechanical air handler units to improve indoor air quality.
- ☐ Replace bleachers with ADA and code compliant units.
- ☐ Add new transom windows on the North and South sides of the gym to utilize day lighting.
- ☐ Replace existing gym wood court floor system.
- ☐ Update all gymnasium equipment.
- ☐ Upgrade exterior shell insulation to improve efficiency.
- ☐ Implement energy audit upgrades including lighting, exit lights and temperature controls.

**Colstrip Elementary
Rosebud County
Statutory Priority #4 (Energy Efficiency Improvements)
Quality Schools Grant Program Projects
2013 Biennium**

This application received 303 points out of a possible 500 points and ranked #20 out of 66 ranked applications. Commerce recommends a \$329,153 Quality Schools Project Grant to the Colstrip Elementary District for the 2013 Biennium.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Project Grant	\$329,153	67% of Project
Colstrip Elementary School District	Building Reserve	\$150,000	31% of Project
Colstrip Elementary School District	OTO State Funding	\$8,500	2% of Project
Project Total		\$487,653	

Project Summary

History – The Colstrip School District has actively pursued energy savings upgrades over the past few years. At Pine Butte Elementary, the boiler was upgraded in 2004. Currently, many of the existing pneumatically controlled fan powered boxes are out of calibration and their minimum volume settings are greater than necessary. This leads to high energy usage. New digital controls would allow accurate measurement of air volumes so that minimum ventilation requirements can be met. This would improve the overall learning environment in the classrooms and also allow for night setback. The facility utilizes an air handler that operates continuously, supplying 20,000 CFM of air to the building. New variable frequency drives (VFDs) would provide energy savings by allowing for turn-down.

A boiler upgrade was completed at Frank Brattin Middle School in 2001; however the existing unit ventilators require frequent repairs due to failures of the pneumatic tubing and controls. This issue could be remedied by converting the heating valves to allow for a retrofit of the hot water heating system. The temperature controls could also be greatly improved by converting to a new web-based Direct Digital Control (DDC) system. DDC would allow for the implementation of energy saving control strategies not currently possible.

NOTE: The district also proposes to install lighting occupancy sensors in classrooms and hallways that do not already have sensors installed. This would not be covered by the grant funding but could be done at the same time, at the district's expense.

Problem – The school district has the following deficiencies:

- ☐ Inefficient pneumatic controls that are out of calibration and do not allow for energy saving strategies.
- ☐ Large air handler at elementary runs continuously.
- ☐ Pneumatic tubing and controls on unit ventilators require frequent repairs.

Proposed Solution – The proposed project would:

- ☐ Install DDC with a central monitoring system.
- ☐ Install VFDs on large fans and pumping systems to maximize efficiency and minimize wear.
- ☐ Install DDC for individual room units.

Whitehall High School
Jefferson County
Statutory Priority #4 (Energy Efficiency Improvements)
Quality Schools Grant Program Projects
2013 Biennium

This application received #302 points out of a possible 500 points and ranked #21 out of 66 ranked applications. Commerce recommends a \$550,000 Quality Schools Project Grant to the Whitehall High School District for the 2013 Biennium.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Project Grant	\$550,000	76% of Project
Whitehall High School District	Operation & Maintenance Fund	\$31,050	4% of Project
Whitehall High School District	Building Construction Fund	\$35,212	5% of Project
Whitehall High School District	Land Improvement Fund	\$88,505	12% of Project
Whitehall High School District	Deferred Maintenance	\$17,293	3% of Project
Project Total		\$722,000	

Project Summary

History – The original roof of the Whitehall High School was built in 1974. The existing roof covers 39,000 sq. feet and in 1995, a 2 foot re-roof section was applied over the top of the existing roof. The original roof and re-roof have reached the end of their useful life and are cracking. Noticeable areas of wet insulation have been discovered. The reroof has been top coated, which is rare, and normally occurs when the material or installation are not up to industry standards. The R-values of the existing roofs are minimal and need to be upgraded. Sections of the roof are leaking and as a result, R-values in these areas are even lower.

Problem – The school district has the following deficiencies:

- ☐ Roof is in a state of disrepair, leaking and cracking.
- ☐ Roof is not energy efficient.

Proposed Solution – The proposed project would:

- ☐ Replace current roof with an energy efficient, insulated granulated, modified fire rated roof system.

**Stanford K-12 Schools
Judith Basin County
Statutory Priority #4 (Energy Efficiency Improvements)
Quality Schools Grant Program Projects
2013 Biennium**

This application received 300 points out of a possible 500 points and ranked #22 out of 66 ranked applications. Commerce recommends a **\$220,500 Quality Schools Project Grant to Stanford K-12 Schools for the 2013 Biennium.**

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Project Grant	\$220,500	93% of Project
Stanford K-12 School District	Flex Fund	\$17,073	7% of Project
Project Total		\$237,573	

Project Summary

History – The boiler at the Stanford School was originally installed in 1948. It is well past its estimated useful life of 25 years. Though it has been maintained well there is no guarantee as to how much longer the boiler will remain operational. Should the boiler stop functioning the school would be exposed to numerous potential hardships, such as school closure and the freezing and breaking of pipes. Other options were considered for upgrading the school's heating system; for example, replacing the steam boiler with a hydronic system. This option, however, would add additional expense in replacing supply and return plumbing throughout the school. This project improves efficiency, reliability, and is a necessity.

Problem – The school district has the following deficiencies:

- ❑ The total square footage of the school is approximately 42,000 square feet. The single existing boiler fired by fuel oil produces steam to heat the school building with the exception of the shop building. The current boiler was installed 52 years ago during the construction of the elementary school addition in 1958. The estimated useful life for this boiler is 25 years. If anything happens to the single existing boiler the school is without heat. An energy audit was completed for Stanford School on June 10, 2010. The boiler and temperature controls were identified as needing to be replaced. No action has been taken due to lack of funds. The thermostats for the unit ventilators are not working, which leads to wasted heat energy and poor temperature control as the faculty has to manually cycle the fans for heat.

Proposed Solution – The proposed project would:

- ❑ Replace the single existing steam boiler with two new high efficiency steam boilers to save energy and fuel costs and improve the reliability of the heating plant. It would also replace the temperature controls for the elementary wing unit ventilators, which use steam from the boiler for heat.

**Grass Range Public Schools
Fergus County
Statutory Priority #4 (Energy Efficiency Improvements)
Quality Schools Grant Program Projects
2013 Biennium**

This application received 299.6 points out of a possible 500 points and ranked #23 out of 66 ranked applications. Commerce recommends a \$38,315 Quality Schools Project Grant to Grass Range Elementary and High School Districts for the 2013 Biennium.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Project Grant	\$38,315	98% of Project
Grass Range Public Schools	Parent/Teacher Org.	\$500	1% of Project
Grass Range Foundation	Donation	\$500	1% of Project
Project Total		\$39,315	

Project Summary

History – The Grass Range School was built in 1961 and is 23,517 square feet. The building consists of one central hallway running east to west, with classrooms on both sides. During construction, two skylights were built into the ceiling. This has created two issues, both having to do with energy consumption. The orientation of the building puts it in direct line with the strong east winds received in central Montana. Elementary students use one end of the hallway while high school students use the other end. The exterior doors on either end are opened repeatedly throughout the day, which creates a wind tunnel in the hallway. During the cold winter months, the district has difficulty heating the central hallway and in 2009 hall heaters were replaced. The new heaters run almost constantly during the school day and are still unable to keep up with the cold air entering the building. The second issue is caused by the skylights. These are located in the central hallway and have, since construction, been covered with a tin roof. However, the skylights were never properly enclosed or insulated to prevent significant heat loss through the ceiling.

The district also has a significant safety risk due to it having two unconnected buildings. A recent event caused the school to enforce a lockdown of all students and staff. Due to improper communication technology between the two buildings, staff members had to risk leaving the main facility in order to lock down the auxiliary building. This is a hopefully rare but serious problem. Construction of a breezeway connecting the two buildings would improve both the energy consumption as well as the safety risk.

Problem – The school district has the following deficiencies:

- ☐ Difficulty heating central hallway due to wind tunnel caused when both end doors are opened simultaneously.
- ☐ Heat loss caused by skylights that were not properly insulated.

Proposed Solution – The proposed project would:

- ☐ Install airlock doors on either end of the hallway and construct a breezeway connecting the west end of the main building to the auxiliary building to prevent outside air from entering when students transfer back and forth between classes.
- ☐ Properly enclose the two skylights in the central hallway.

**Superior K-12 Schools
Mineral County
Statutory Priority #6 (Enhance Educational Opportunities)
Quality Schools Grant Program Projects
2013 Biennium**

This application received 295.5 points out of a possible 500 points and ranked #24 out of 66 ranked applications. Commerce recommends a \$521,162 Quality Schools Project Grant to Superior K-12 School District for the 2013 Biennium.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Project Grant	\$521,162	76% of Project
Superior K-12 School District	Deferred Maintenance	\$58,859	9% of Project
Superior K-12 School District	Building Fund	\$39,881	6% of Project
Superior K-12 School District	IDEA Part B Grant	\$38,529	5% of Project
Commerce	Quality Schools Planning Grant	\$25,000	4% of Project
Project Total		\$683,431	

Project Summary

History – The Superior High School facility was built in 1963 and currently serves 130 students. The Gymnasium that serves the high school population was built in 1973 and seats 723. Neither building has undergone major renovations since their construction. The locker rooms lack the size to properly serve Physical Education classes and extracurricular activities. They also do not have accessible toilet or shower facilities. The nearest bathroom facility in the high school is also not accessible. None of these facilities currently meet plumbing code requirements for number of fixtures based on occupant load. Several other deficiencies were noted in this area on the Facilities Condition Inventory (FCI). These would be corrected with the completion of this project

In addition, the district does not currently have the classroom space to work with Special Education students to prepare them for living on their own after graduation. Adding this space would allow the district staff and local counselors to work individually with special needs students as they prepare for the future. The new space would also provide an area for occupational and physical therapy specialists to work with disabled students in private.

Problem – The school district has the following deficiencies:

- ☐ Inaccessible locker rooms and toilet facilities are inadequately sized to meet plumbing code.
- ☐ Combustion air system is not compliant with International Mechanical Code.
- ☐ Gymnasium lacks adequate exit lighting.

Proposed Solution – The proposed project would:

- ☐ Construct an addition connecting the high school to the Gymnasium facility, to include additional locker rooms with accessible toilets and showers, new accessible public restrooms, a Life Skills classroom, and a Nurse's station
- ☐ Address all deficiencies noted in the FCI that are located in the construction area.

**Geraldine Public Schools
Chouteau County
Statutory Priority #4 (Energy Efficiency Improvements)
Quality Schools Grant Program Projects
2013 Biennium**

This application received 294.2 points out of a possible 500 points and ranked #25 out of 66 ranked applications. Commerce recommends a \$106,900 Quality Schools Project Grant to the Geraldine Elementary and High School Districts for the 2013 Biennium.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Project Grant	\$106,900	100% of Project
Project Total		\$106,900	

Project Summary

History – Geraldine School was built in 1954 and is approximately 51,130 square feet. High school classrooms and multi-use areas were added in 1974 and a locker room addition was completed in 1980. The school is a valued part of the community. In addition to serving the elementary and high school students, the facility is used as a community center, event center and an athletic training center. However, there is limited levy support in the small community and, largely due to lack of funding; the HVAC system has deteriorated over time. Inoperable facility components are causing unnecessarily high energy costs in the winter months. An energy audit performed in 2009 resulted in a list of upgrades that would save the district a significant amount of money on energy costs. The projects contained herein would save about \$23,000 per year.

Problem – The school district has the following deficiencies:

- ☐ Pneumatic controls are inefficient and do not provide the opportunity for sensors and setbacks.
- ☐ The hot water pump lacks a time clock.
- ☐ Uncontained groundwater flows in the crawlspace, which lacks proper ventilation and insulation.
- ☐ Outside air (OA) dampers and air handling units need to be upgraded to provide proper ventilation.
- ☐ Some areas lack insulation.

Proposed Solution – The proposed project would:

- ☐ Install Direct Digital Control (DDC) system.
- ☐ Install time clock for domestic hot water heater recirculation pump.
- ☐ Provide CO2 demand control ventilation for one air handling unit.
- ☐ Refurbish OA dampers in classrooms and gymnasium.
- ☐ Install insulation where needed.
- ☐ Retro-commission HVAC system and provide written operation plan for facilities staff.

**Bozeman High School
Gallatin County
Statutory Priority #4 (Energy Efficiency Improvements)
Quality Schools Grant Program Projects
2013 Biennium**

This application received 291.3 points out of a possible 500 points and ranked #26 out of 66 ranked applications. Commerce recommends a \$109,087 Quality Schools Project Grant to Bozeman High School District for the 2013 Biennium.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Project Grant	\$109,087	69% of Project
Bozeman High School District	Building Reserve & General Fund	\$50,000	31% of Project
Project Total		\$159,087	

Project Summary

History – A 2009 audit of Bozeman Public Schools by the National Center for Appropriate Technology (NCAT) made recommendations to retrofit the lighting at Bozeman High School. The high school was built in 1955 with renovations currently being made to additions. Retrofitting the lighting would save the district a significant amount in energy costs each year. Data from the energy audit suggests a savings of \$22,408 per year.

Problem – The school district has the following deficiencies:

- ☐ Inefficient lighting that is costing the district too much on electric bills.

Proposed Solution – The proposed project would:

- ☐ Retrofit the lighting, including replacing existing 32 Watt T-8s with 25 Watt T-8s, replacing incandescent bulbs to compact fluorescent, replacing T12 fixtures, and adding occupancy sensors and LED exit lighting.

Frazer Public Schools
Valley County
Statutory Priority #4 (Energy Efficiency Improvements)
Quality Schools Grant Program Projects
2013 Biennium

This application received 286.3 points out of a possible 500 points and ranked #27 out of 66 ranked applications. Commerce recommends a \$243,086 Quality Schools Project Grant to the Frazer Elementary and High School Districts for the 2013 Biennium.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Project Grant	\$243,086	100% of Project
Project Total		\$243,086	

Project Summary

History – Frazer School currently is a 63,221 square foot facility. The original school building completed in 1984 is 39,239 square feet, while a bond was passed on September 12, 2006 for the addition/remodel which added a net 21,923 square feet. The entire HVAC was altered during the 2006-2008 project from a high temperature feed system to a ground coupled closed loop heat pump (GSHP) system. The original boiler installed in the 1984 project was re-used as a heat generation device for the GSHP system, but also for the gymnasium heating units. The control system also was updated to a component style Direct Digital Control (DDC) system during the 2006-2008 projects.

Problem – The school district has the following deficiencies:

- ❑ Frazer Public Schools conceptually has a state of the art heating and air condition system that is not operating satisfactorily, encumbering enormous operating and energy costs to keep the system repaired and running and not providing consistent zone comfort control. The overall asset of the HVAC system has a positive fundamental base value, but a comprehensive energy based project will set the pace and retain a sustainable energy and resource benchmark that the school district will be able to realize internal funds to be invested into their student.

Proposed Solution – The proposed project would:

- ❑ The project will involve updating a partially operating control system, replacing a failing boiler, retro-commissioning, and creating a system that can be easily operated and tuned by the staff of this remote school district.

**Libby K-12 Schools
Lincoln County
Statutory Priority #4 (Energy Efficiency Improvements)
Quality Schools Grant Program Projects
2013 Biennium**

This application received 283.3 points out of a possible 500 points and ranked #28 out of 66 ranked applications. Commerce recommends a \$391,470 Quality Schools Project Grant to Libby K-12 School District for the 2013 Biennium.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Project Grant	\$391,470	90% of Project
Libby K-12 School District	Building Fund	\$44,485	10% of Project
Project Total		\$435,955	

Project Summary

History – Libby High School was built in 1962 with a new wing added in 1967 and two small extensions in 1989. The HVAC equipment is all original to the facility. The majority of the school is heated with unit ventilators that are more than 40 years old. These ventilators use hot water coils while the gym area is heated with units using steam coils. The 1989 additions use fuel oil-fired units. The school uses two high fire box steam boilers with fuel oil-fired forced draft burners. The boilers and burners are original to the building and have exceeded their expected service life. The boilers are in poor condition and the state boiler inspector has indicated that the mud legs are beginning to fail and has recommended they be replaced within two years. The boilers are only about 65% to 70% efficient.

Problem – The school district has the following deficiencies:

- ☐ Two inefficient boilers that are well past their useful life expectancy and have failing mud legs.
- ☐ Antiquated control system.
- ☐ Seven fuel oil-fired heating/ventilating units are nearing the end of their expected service life.

Proposed Solution – The proposed project would:

- ☐ Replace boilers with high efficiency boilers.
- ☐ Install new pumps, associated equipment and digital controls.
- ☐ Replace seven heating/ventilating units serving the music room and science room additions with high efficiency propane-fired furnaces.

Hamilton K-12 Schools
Ravalli County
Statutory Priority #4 (Energy Efficiency Improvements)
Quality Schools Grant Program Projects
2013 Biennium

This application received 282.1 points out of a possible 500 points and ranked #29 out of 66 ranked applications reported. Commerce recommends a \$751,000 Quality Schools Project Grant to the Hamilton K-12 School District for the 2013 Biennium.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Project Grant	\$751,000	99% of Project
Hamilton K-12 School District	General Fund	\$5,200	1% of Project
Project Total		\$756,200	

Project Summary

History – Washington School was built in 1949 and is still using the original boiler installed at that time. The boiler is over 60 years old and has been repaired many times over the years. An inspection on June 14, 2010 found more leaks that will need to be welded. Teachers have complained about the noise of the heating system and the inability to maintain a comfortable room temperature. Students have a difficult time focusing with these distractions. Replacement of the boiler has been recommended since 1992 but the cost has been prohibitive. With new leaks now needing repair, it is unclear for how much longer the boiler will last without replacement. The Building and Grounds Committee has identified the boiler as the top priority project for the district. In addition to concerns about maintaining a healthy safe learning environment, the district worries about the cost of continuing maintenance on such an old inefficient boiler system. A new efficient system with digital controls would save the district over \$3,000 per year on energy costs.

Problem – The school district has the following deficiencies:

- ☐ Inefficient boiler is well past its expected useful life.
- ☐ Temperature fluctuations in classrooms.
- ☐ Distracting noise from old heat distribution system.
- ☐ Inefficient pneumatic controls.

Proposed Solution – The proposed project would:

- ☐ Replace boiler with a new high efficiency boiler.
- ☐ Adjust the heating and ventilation system.
- ☐ Install building-wide digital controls for heating and cooling.

**Bozeman Elementary
Gallatin County
Statutory Priority #4 (Energy Efficiency Improvements)
Quality Schools Grant Program Projects
2013 Biennium**

This application received 281.3 points out of a possible 500 points and ranked #30 out of 66 ranked applications. Commerce recommends a \$107,798 Quality Schools Project Grant to the Bozeman Elementary District for the 2013 Biennium.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Project Grant	\$107,798	68% of Project
Bozeman Elementary School District	Building Reserve & General Fund	\$50,000	31% of Project
Project Total		\$157,798	

Project Summary

History – A 2009 audit of Bozeman Public Schools by the National Center for Appropriate Technology (NCAT) made recommendations to retrofit the lighting at Willson School. Willson School was built in 1939 and is an administrative facility. Retrofitting the lighting would save the district a significant amount in energy costs each year. Data from the energy audit suggests a savings of \$13,849 per year.

Problem – The school district has the following deficiencies:

- ☐ Inefficient lighting that is costing the district too much on electric bills.

Proposed Solution – The proposed project would:

- ☐ Retrofit lighting, including replacing existing 32 Watt T-8s with 25 Watt T-8s, replacing incandescent bulbs to compact fluorescent, replacing T12 fixtures, and adding occupancy sensors and LED exit lighting.

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2011 Biennium Quality Schools Emergency Grants

For the 2011 biennium, the Legislature appropriated \$100,000 to Commerce for emergency grant funding to public school districts. Emergency is statutorily defined as the imminent threat or actual occurrence of an event causing immediate peril to life, property, or the environment that can be averted or minimized with timely action. These grants are awarded directly through Commerce. The originating statute requires Commerce to report to the Governor and Legislature regarding each Emergency Grant awarded during the previous biennium.

During the 2011 biennium, Commerce awarded emergency grants to 5 public school districts. As of December 15, 2010, \$34,495 remains for emergency grant funding in the 2011 biennium.

Frontier Elementary
Roosevelt County
Statutory Priority: Emergency

Commerce awarded an Emergency Grant of \$12,000 to the Frontier Elementary District to fix failed sewer pumps.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Emergency Grant	\$12,000.00	33% of Project
Frontier Elementary School District	Building Reserve	\$24,000.00	67% of Project
Project Total		\$36,000.00	

Project Summary

History – Frontier Elementary had problems with their lift station sewer pumps during the winter of the 2009/2010 school year. These pumps failed causing sewer backups in to the school.

Problem – The school district had the following deficiencies:

- ☐ Failed sewer pumps.

Proposed Solution – The emergency funds:

- ☐ Allowed Frontier Elementary to replace their failed lift station sewer pumps.

Helena Flats Elementary
Flathead County
Statutory Priority: Emergency

Commerce awarded an Emergency Grant of \$11,485 to the Helena Flats Elementary District to fix a failing roof.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Emergency Grant	\$11,485.00	100% of Project
Project Total		\$11,485.00	

Project Summary

History – The Helena Flats gymnasium was built approximately 30 years ago. After an inspection in the fall of 2009 it was determined that the gym's roof was failing. There were serious concerns that the roof could not handle the weight from the snow load during the winter of 2010.

Problem – The school district had the following deficiencies:

- ☐ Failing gymnasium roof and risk of catastrophic failure.

Proposed Solution – The emergency funds:

- ☐ Reinforced the roof temporarily until funds are available to install new laminate beams.

**Livingston Elementary
Park County
Statutory Priority: Emergency**

Commerce awarded an Emergency Grant of \$10,000 to the Livingston Elementary District to fix a leaking roof.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Emergency Grant	\$10,000.00	25% of Project
Livingston Elementary School District	Building Reserve	\$30,000.00	75% of Project
Project Total		\$40,000.00	

Project Summary

History – During the summer of 2010, it was discovered that the roof at Winans School was leaking badly. The district’s maintenance manager contacted the Department of Commerce to request an emergency grant because the Livingston School District did not have adequate funds available to repair this roof.

Problem – The school district had the following deficiencies:

- ☐ Leaking roof at Winans School.

Proposed Solution – The emergency funds:

- ☐ Install a membrane over the Winans School as a temporary fix to this problem.

**Somers Elementary
Flathead County
Statutory Priority: Emergency**

Commerce awarded an Emergency Grant of \$10,020 to the Somers Elementary District to fix a leaking roof.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Emergency Grant	\$10,020.00	100% of Project
Project Total		\$10,020.00	

Project Summary

History – During the fall of 2010, it was determined that the roof at the Somers Elementary School was leaking badly. This leak had gone unnoticed for years because the insulation had been absorbing the water. By the time it was noticed, water damage had occurred to the building as well as mold growth.

Problem – The school district had the following deficiencies:

- ☐ Leaking roof at the Somers Elementary School.

Proposed Solution – The emergency funds:

- ☐ Provided a temporary fix until funds can be acquired to remedy the problem permanently.

Upper West Shore Elementary
Lake County
Statutory Priority: Emergency

Commerce awarded an Emergency Grant of \$10,000 to the Upper West Shore Elementary District to fix a contaminated well.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Emergency Grant	\$10,000.00	% 100 of Project
Project Total		\$10,000.00	

Project Summary

History – In 2009, it was determined that the well at the Upper West Shore Elementary School was contaminated with high levels of arsenic.

Problem – The school district had the following deficiency:

- ☐ Water well that was contaminated with high levels of Arsenic.

Proposed Solution – The emergency funds:

- ☐ Drilled a new well and provided testing to be sure it was arsenic-free.

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2011 Biennium Quality Schools Planning Grants

For the 2011 Biennium, the Legislature appropriated \$900,000 to Commerce for matching planning grant awards to public school districts. The originating statute requires Commerce to report to the Governor and Legislature regarding each planning grant awarded during the preceding biennium.

Quality Schools Planning Grants were available in amounts up to \$25,000 for an applicant district. The applicant districts were required to provide a 1:4 match (i.e., the district was required to provide \$1 for each \$4 of Quality Schools Planning Grant funds awarded) with funds firmly committed at the time Quality Schools funds were released. Up to 50% of the matching funds may come from in-kind services provided by regular salaried school district staff for cash match.

Commerce awarded 46 planning grants to Montana public school districts in the 2011 biennium, for a total of \$900,000.

QUALITY SCHOOLS PLANNING GRANTS 2011 BIENNIUM

Grantee	Grant Amount	Match Amount	Planning Project Description
Belt Public Schools	\$25,000	\$6,250	Investment Grade Energy Audit
Box Elder Elementary	\$25,000	\$7,000	Planning for Proposed Addition
Bozeman Elementary	\$25,000	\$6,300	Master Planning & PAR, Preparation of Quality Schools Project Grant
Browning Public Schools	\$25,000	\$6,250	Updated FCI report
Butte High School	\$25,000	\$6,250	Planning based on FCI related to Safety, Code & Energy
Bynum Elementary	\$6,362	\$1,591	Plans to Obtain DEQ Certification as a Public Water Supply
Cascade Public Schools	\$12,412	\$3,103	Bid Documents and Planning for Sewer Upgrade
Columbia Falls Public Schools	\$7,520	\$1,880	PAR to address falling ice and fire alarm system
Corvallis K-12 Schools	\$25,000	\$6,250	Master Plan for vocational education and infrastructure efficiency
Creston Elementary	\$19,778	\$4,945	Master Plan to address safety issue at current site, plan options for expansion
Cut Bank Public Schools	\$18,000	\$4,500	Basic Energy Audit of Boiler System
Dillon Elementary	\$25,000	\$36,750	PAR of Campus
Dodson Public Schools	\$12,887	\$3,222	PER & facilities study
Ekalaka Elementary	\$25,000	\$6,250	PAR to address Building new Elementary Facility or Adding to Current Facilities
Fair-Mont-Egan Elementary	\$25,000	\$6,250	Comprehensive Facility Plan for remodeling facility space
Florence-Carlton K-12 Schools	\$12,416	\$3,104	PAR and Master Planning
Frenchtown K-12 Schools	\$11,369	\$2,842	Design of mechanical & electrical efficiency upgrades
Gildford Colony Elementary	\$25,000	\$10,000	Planning for Construction of a Permanent School Facility - ADA concerns
Great Falls Public Schools	\$25,000	\$6,250	Short-term and Long-Range Plan for District
Hamilton K-12 Schools	\$19,000	\$4,750	Facility Assessment & Master Plan to Address Long-term Needs
Havre Public Schools	\$25,000	\$135,000	Planning for Highland Park South Classroom Expansion
Laurel Public Schools	\$18,009	\$4,502	Planning for Combined Energy Efficiency Project
Libby K-12 Schools	\$25,000	\$19,280	PAR for asbestos-related improvements or replacement of Asa Wood school
Livingston Public Schools	\$21,750	\$7,250	Master Planning to address issues in the 2008 FCI Report
Lolo Elementary	\$12,416	\$3,104	Facility Assessment & Master Plan to Address Long-term Needs
Malta K-12 Schools	\$19,112	\$4,778	Planning for new Boiler
Miles City Elementary	\$7,120	\$1,780	Planning for new HVAC System in Washington Elementary
Monforton Elementary	\$25,000	\$39,800	Master Plan for Remodel and Addition
Montana City Elementary	\$25,000	\$6,250	Comprehensive Facility Plan for Future Expansion
Noxon Public Schools	\$7,456	\$1,864	PAR and Evacuation Plan Relating to Noxon Rapids Dam
Plains Elementary	\$25,000	\$6,250	Planning for Classroom Additions
Polson Public Schools	\$25,000	\$14,250	PER of Campus relating to Health + Safety, Code Compliance, and Energy
Poplar Public Schools	\$15,409	\$3,852	Facility Planning and Preparation of Quality Schools Project Grant
Powder River Co High School	\$5,000	\$1,250	Asbestos study
Power Public Schools	\$25,000	\$6,250	Design for Roof and Ceiling Updates
Sidney Public Schools	\$25,000	\$6,250	Comprehensive Facility Plan to prioritize facility improvements
St. Ignatius K-12 Schools	\$25,000	\$157,802	Master Planning of Facilities Upgrades, part of an ongoing project
Stanford K-12 Schools	\$25,000	\$6,250	Facility Assessment & PAR
Superior K-12 Schools	\$25,000	\$9,155	PAR to Address ADA Deficiencies
Thompson Falls Public Schools	\$11,800	\$2,950	PAR to Address Health & Safety Issues in Elementary
Townsend K-12 Schools	\$11,600	\$2,900	Preparation for Quality Schools Project Grant
Troy Public Schools	\$25,000	\$6,250	PAR to Evaluate Safety Concerns at Elementary and Junior High
White Splhr Spgs High School	\$23,744	\$5,936	Facility Assessment for Heating Distribution Piping & Locker Room facility
Whitefish High School	\$13,200	\$3,300	Architectural Programming and Design work for new High School
Whitehall Elementary	\$25,000	\$6,250	PER of Roof
Winnet K-12 Schools	\$13,640	\$3,410	Construction Planning for Shop/Vocational Building
Totals	\$900,000	\$599,650	

Belt Public Schools
Cascade County
Quality Schools Planning Grant
2011 Biennium

Commerce awarded a Quality Schools Planning Grant to the Belt Elementary and High School Districts in the amount of \$25,000.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$25,000	80% of Project
Belt Public Schools	General Fund	\$6,250	20% of Project
Project Total		\$31,250	

Project Summary

History – Belt Public Schools were in need of an investment grade energy audit for the four buildings in the Belt School District, including the main school building, the kindergarten building, the pre-K Building, and the vocational building.

Problem – The school district had the following deficiency:

- ☐ Absence of an updated investment grade energy audit in place to determine the best course of action to save energy at the school.

Proposed Solution – The proposed project:

- ☐ Performed an investment grade energy audit for the school district.

**Box Elder Elementary
Hill County
Quality Schools Planning Grant
2011 Biennium**

Commerce awarded a Quality Schools Planning Grant to the Box Elder Elementary District in the amount of \$25,000.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$25,000	78% of Project
NorthWestern Energy	Energy Rebate	\$7,000	22% of Project
Project Total		\$32,000	

Project Summary

History – The Box Elder Elementary District was in need of additional classroom space to remedy security issues. It had two classrooms located in the basement, which had seventeen steps (17) below the ground level. An addition on the main floor of the K-3 elementary school was needed to address student safety and alleviate the problem of having dislocated students.

Problem – The school district had the following deficiencies:

- ☐ Inadequate space for students on the main floor and displacement of students to basement classrooms.
- ☐ Safety hazards in the school's current design with the basement classrooms located seventeen (17) steps below the main floor.

Proposed Solution – The proposed project:

- ☐ Proposed plans to build a four-classroom addition on the main floor of the K-3 building to alleviate the safety hazards of students travelling to the basement.
- ☐ Provided plans to ensure each student has adequate classroom space to comply with educational standards and building codes in the new addition.

**Bozeman Elementary
Gallatin County
Quality Schools Planning Grant
2011 Biennium**

Commerce awarded a Quality Schools Planning Grant to the Bozeman Elementary District in the amount of \$25,000.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$25,000	80% of Project
Bozeman Elementary	Building Reserve Levy	\$6,300	20% of Project
Project Total		\$31,300	

Project Summary

History – The Bozeman Elementary District outlined facility improvements in a Quick Start Energy Audit. These issues needed to be remedied to address problems with of entrance security, safety concerns, and technological deficiencies.

Problem – The school district had the following deficiencies:

- ☐ Insufficient electrical service/distribution system equipment.
- ☐ Space issues in classrooms and outdated portable classrooms.
- ☐ Security risk associated with the entrances to the school.
- ☐ Safety concerns to the school's students and teachers regarding their food/cafeteria services currently housed in that facility's basement
- ☐ Limitations in the capability of the district's technology systems.

Proposed Solution – The proposed project:

- ☐ Provided plans to replace the electrical service/distribution system and mechanical HVAC system, which will be sized for the future.
- ☐ Developed plans to enhance educational spaces through the replacement of portable classrooms with permanent rooms.
- ☐ Laid the foundation to improve security through main entrance relocation and other considerations.
- ☐ Provided plans to address safety concerns, such as the relocation of food/cafeteria services out of the basement.
- ☐ Provided plans to upgrade technological systems in the district.

**Browning Public Schools
Glacier County
Quality Schools Grant Program
2011 Biennium**

Commerce awarded a Quality Schools Planning Grant to the Browning Elementary and High School Districts in the amount of \$25,000.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$25,000	80% of Project
Browning Public Schools	Impact Aid Revenue	\$6,250	20% of Project
Project Total		\$31,250	

Project Summary

History – The Browning Public School District was in need of a Facility Improvement Study to develop a basis for planning the district's required facility upgrades to meet student needs. The District did not have a revised version of the district's 2001 Final Facilities Report, which includes information, options and recommendations for district facilities. This document would be the basis for planning the Browning School District's facility upgrades required to meet student needs.

Problem – The school district had the following deficiencies:

- ☐ Insufficient and outdated Facility Improvement Study, which recommends options for school district upgrades to meet student needs.

Proposed Solution – The proposed project:

- ☐ Created an updated Facility Improvement Study for Browning Public Schools, which provided the information necessary to plan required school district upgrades to meet student needs.

Butte Public Schools
Silver Bow County
Quality Schools Grant Program
2011 Biennium

Commerce awarded a Quality Schools Planning Grant to the Butte Elementary and High School Districts in the amount of \$25,000.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$25,000	80% of Project
Butte Public Schools	General Fund	\$6,250	20% of Project
Project Total		\$31,250	

Project Summary

History – The Butte Public School District conducted an investment grade audit via funds provided by the Quick Start grant. This audit outlined issues relating to inefficient energy consumption, and basic infrastructure issues, such as safety, healthy environment, special use, code, and general facility and technology use issues.

Problem – The school district had the following deficiencies:

- ☐ Insufficient consumption of energy and basic infrastructure issues in the facilities as outlined in the audit.
- ☐ Lack of a master plan on how to identify and address these needs for Butte School District facilities and educate the school district staff on required changes.

Proposed Solution – The proposed project:

- ☐ Organized teams to assess educational facility issues, prioritized these concerns and educated the Butte School District staff on the required changes.
- ☐ Utilized the grant funds in total for these infrastructure and energy source improvements and reserve other district funds for educational purposes.

**Bynum Elementary
Teton County
Quality Schools Planning Grant
2011 Biennium**

Commerce awarded a Quality Schools Planning Grant to the Bynum Elementary District in the amount of \$6,362.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$6,362	80% of Project
Bynum Elementary	Building Maintenance Fund	\$1,591	20% of Project
Project Total		\$7,953	

Project Summary

History – The Bynum Elementary School was not certified by MDEQ as a Public Water Supply and needed to meet these standards to eliminate an urgent public health concern and to increase enrollment.

Problem – The school district had the following deficiencies:

- ☐ Public concern regarding the sanitary nature of the public water at the school.
- ☐ Potentially decreased enrollment due to the quality of the water at the facility.
- ☐ Insufficient funds to pay for the testing required in meeting the certification standards for a Public Water Supply.

Proposed Solution – The proposed project has:

- ☐ Potentially eliminated a public concern regarding the quality of the water.
- ☐ Potentially increased enrollment.
- ☐ Utilized the grant funds to pay for the costs of testing and processing fees to meet the standards of a certified Public Water Supply status.

Cascade Public Schools
Cascade County
Quality Schools Planning Grant
2011 Biennium

Commerce awarded a Quality Schools Planning Grant to the Cascade Elementary and High School Districts in the amount of \$12,412.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$12,412	80% of Project
Cascade Public Schools	General Fund	\$3,103	20% of Project
Project Total		\$15,515	

Project Summary

History – Cascade Public Schools needed to replace its sanitary sewer system, which was the source of serious public health concerns. Two engineering firms, CTA Architects and Engineers of Helena and Stelling Engineers of Great Falls, provided a field report, a fee proposal, and an implementation schedule.

Problem – The school district had the following deficiencies:

- ☐ Public health concerns regarding an unreliable and hazardous sanitary sewer system, which caused stoppages in school operation since 2001 due to sewage and gases backing up through floor drains, sinks and toilets.

Proposed Solution – The proposed project:

- ☐ Developed plans to replace the sanitary sewer system with an upgraded system to alleviate building-wide stoppages and subsequent public health concerns.

Columbia Falls Public Schools
Flathead County
Quality Schools Planning Grant
2011 Biennium

Commerce awarded a Quality Schools Planning Grant to the Columbia Falls Elementary and High School Districts in the amount of \$7,500.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$7,520	80% of Project
Columbia Falls Public Schools	General Fund	\$1,880	20% of Project
Project Total		\$9,400	

Project Summary

History – The building additions to the elementary school in the Columbia Falls School District were constructed without a plan to integrate it effectively with the existing buildings. Thus, an unsafe walkway was unintentionally formed. Additionally, the high school's alarm system dates back to the building's construction in 1958.

Problem – The school district had the following deficiencies:

- ☐ Potentially unsafe walking conditions in the walkway constructed for the elementary school, due to falling snow and ice chunks which upon melting, caused very slippery walking conditions.
- ☐ An outdated alarm system in the high school made communication with students difficult in times of peril and violated building and fire codes.

Proposed Solution – The proposed project:

- ☐ Collected expert advice and recommendations to resolve the safety issues in the elementary school walkway via a Preliminary Architectural Report.
- ☐ Developed a report containing recommendations and cost estimates to bring the high school's alarm system into code compliance.

Corvallis K-12 Schools
 Ravalli County
 Quality Schools Planning Grant
 2011 Biennium

Commerce awarded a Quality Schools Planning Grant to the Corvallis K-12 District in the amount of \$25,000.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$25,000	80% of Project
Corvallis K-12 Schools	General Fund	\$6,250	20% of Project
Project Total		\$31,250	

Project Summary

History – The Corvallis School District conducted a preliminary assessment of needed facility renovations and outlined phase one of a master plan. The needed renovations in this phase included the addition of replacement of facilities, expansion of classrooms and lunch rooms in the middle school and high school facilities, a reconfiguration of existing areas impacted by these changes, and upgrades on the existing heating and distribution systems in the high school.

Problem – The school district had the following deficiencies:

- ☐ Unsatisfactory space for vocational education facilities.
- ☐ Not enough space for science classrooms.
- ☐ Insufficient space for adequate lunch room services in the high school building.
- ☐ Lack of space for adequate lunch room services in the middle school building.
- ☐ Outdated steam boiler.
- ☐ Inadequate steam distribution system in the existing high school and lunch room building.

Proposed Solution – The proposed project:

- ☐ Provided plans to replace and expand vocational education facilities, expand science classrooms, broaden the high school's lunch room and reconfigure offices impacted by this expansion, enlarge the middle school's lunch room space, upgrade an existing steam boiler and change a steam distribution system in the existing high school and lunch room building.

**Creston Elementary
Flathead County
Quality Schools Planning Grant
2011 Biennium**

Commerce awarded a Quality Schools Planning Grant to the Creston Elementary District in the amount of \$19,777.60.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$19,777.60	80% of Project
Creston Elementary School District	Building Reserve Fund	\$4,944.40	20% of Project
Project Total		\$24,722	

Project Summary

History – The Creston Elementary School District hired an engineering and architecture firm to report on design options to increase facility space to meet the needs of a growing student body. The report's scope of work included descriptions of classroom, workroom and storage room additions.

Problem – The school district had the following deficiencies:

- ☐ Unsatisfactory space for an increased and growing student body size in the elementary school facilities.
- ☐ Failure in meeting educational standards regarding adequate space for students in the elementary school classrooms.

Proposed Solution – The proposed project:

- ☐ Provided plans for four (4) classrooms, a teacher workroom, a special education room, and a storage room to be attached to the existing facility.
- ☐ Developed a master plan for a replacement facility on the new facility site to efficiently use the space to meet education facility standards.
- ☐ Prioritized the above mentioned tasks accordingly and planned for future changes to adjust for a growing student body.

**Cut Bank Public Schools
Glacier County
Quality Schools Planning Grant
2011 Biennium**

Commerce has awarded Quality Schools Planning Grant to the Cut Bank Elementary and High School District in the amount of \$18,000.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$18,000	80% of Project
Cut Bank School District	General Fund	\$4,500	20% of Project
Project Total		\$22,500	

Project Summary

History – The Cut Bank School District needed to employ a consulting company to conduct a basic energy audit to develop plans and determine the energy benefits for replacing a failing boiler system with a new hot water boiler system.

Problem – The school district had the following deficiencies:

- ☐ Safety hazards from leaking joints, and subsequent damage to ceilings and floors.
- ☐ Failure to meet state boiler codes, such as inadequate emergency shutdown switches and old boiler gas train mechanism and relief valve devices.
- ☐ High utility bills and chemical treatment costs associated with the out-dated system.

Proposed Solution – The proposed project:

- ☐ Conducted a basic energy audit to select an appropriate hot water boiler system for the facility.
- ☐ Provided Guidance to implement audit assessments to carry out a boiler replacement project that meets state codes.
- ☐ Provided Guidance to reduce utility payments by the district via an energy-efficient heating system.

**Dillon Elementary
Beaverhead County
Quality Schools Planning Grant
2011 Biennium**

Commerce has awarded Quality Schools Planning Grant to the Dillon Elementary District in the amount of \$25,000.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$25,000	40% of Project
Dillon Elementary School District	General Fund	\$36,750	60% of Project
Project Total		\$61,750	

Project Summary

History – The Dillon Elementary District conducted an energy audit using funds from the Quick Start Program, which resulted in recommendations for energy savings and environmental upgrades within the schools. Descriptions of outdated facilities were included in this audit, including the Mary Innes building, which was constructed in 1920.

Problem – The school district had the following deficiencies:

- ☐ Outdated facility buildings, which could have placed the burden of upgrade and maintenance costs on the district.
- ☐ Failure of facility buildings to meet life, safety and building code standards.
- ☐ Limits on the technological capabilities of the district.
- ☐ Excess energy being expelled and paid for by the district.

Proposed Solution – The proposed project:

- ☐ Provided visioning workshops that address facility upgrades.
- ☐ Improved student and faculty health and life safety via environmental changes.
- ☐ Mitigated code deficiencies in facility changes.
- ☐ Increased positive student performance via the improvements recommended in the audit.
- ☐ Provided information to expand technology capabilities and academic facilities, while remaining cognizant of energy costs.

Dodson Public Schools
Philips County
Quality Schools Planning Grant
2011 Biennium

Commerce awarded a Quality Schools Planning Grant to the Dodson Elementary and High School Districts in the amount of \$12,887.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$12,887	80% of Project
Dodson Public Schools	Building Reserve Fund	\$3,222	20% of Project
Project Total		\$16,109	

Project Summary

History – The Dodson School District performed a Facilities Condition Index Study (FCI), and gathered information from a variety of staff, community members and maintenance personnel to identify and assess facility upgrade needs. This information outlined the criteria for evaluating outdated systems, planning for needed upgrades, and recommended changes to ensure future safety and code compliance of their facilities.

Problem – The school district had the following deficiencies:

- ☐ Unsafe structural components for students, faculty, and community members, including hazardous storm water runoff systems.
- ☐ Failure to meet building code compliance standards due to insufficient facility designs.

Proposed Solution – The proposed project:

- ☐ Developed a Preliminary Engineering Report (PER) and a facilities study to evaluate options for needed storm water upgrades, ingress/egress upgrades of stairs, railings and sidewalks, and changes to the parking lot.
- ☐ Ensured the changes would incorporate current building code standards.

**Ekalaka Elementary
Carter County
Quality Schools Planning Grant
2011 Biennium**

Commerce awarded Quality Schools Planning Grant to the Ekalaka Elementary District in the amount of \$25,000.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$25,000	80% of Project
Ekalaka Elementary School District	Building Reserve Funds	\$6,250	20% of Project
Project Total		\$31,250	

Project Summary

History – The Ekalaka School District's School Board determined that the existing elementary school was outdated. This facility was built in the 1920's and underwent several renovations throughout the past decades to keep it functional as an educational structure. Upon the advice of a consultant, it was determined that the costs of upgrading the current facility's infrastructure, and reorganizing the building to fit the needs of faculty and students, outweigh the costs associated with constructing a new building. Additionally, a Preliminary Architectural Audit was needed for the Ekalaka High School building to plan for a new structure or addition to the existing facility.

Problem – The school district had the following deficiencies:

- ☐ Potentially unsafe conditions resulting from asbestos and lead based paint present in the elementary school facility, which violated local, state and federal health standards.
- ☐ Limitations to electrical usage by this facility, such as the inability for SMART boards, or computer drops to be installed.
- ☐ Hazardous emergency exits that did not comply with building codes for egress.
- ☐ Noncompliance with ADA standards of accessibility.
- ☐ Lack of efficient energy systems present in the facility.

Proposed Solution – The proposed project:

- ☐ Developed plans to construct a new Ekalaka Elementary School facility, which will alleviate safety hazards, comply with current building codes, broaden technological capabilities, and resolve student and faculty accessibility issues.
- ☐ Planned for the installation of energy- and cost-efficient lighting, heating and cooling systems in the elementary school facility.
- ☐ Provided plans for public spaces to support and celebrate student achievement in the new facility.

Fair-Mont-Egan Elementary
Flathead County
Quality Schools Planning Grant
2011 Biennium

Commerce awarded a Quality Schools Planning Grant to the Fair-Mont-Egan Elementary District in the amount of \$25,000.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$25,000	80% of Project
Fair-Mont-Egan Elementary District	Capital Investment Fund	\$6,250	20% of Project
Project Total		\$31,250	

Project Summary

History – The Fair-Mont-Egan Elementary District compiled needs assessments in the areas of safety and security, accessibility, and accreditation since 1993. The school board worked with a facilitator to assess options to solve space problems, and solicited input from community members.

Problem – The school district had the following deficiencies:

- ☐ Potentially unsafe conditions in times of both peril and day-to-day activities that result from poor and outdated facility designs.
- ☐ Non-compliance with ADA standards in providing accessible restrooms in the facilities.
- ☐ Potential loss of accreditation due to insufficient space provided to special education and Title I programs.

Proposed Solution – The proposed project:

- ☐ Provided plans to connect two buildings and install a central office to address lock-down security and account for students and unsupervised visitors, reduce safety hazards resulting from vehicle and pedestrian conflicts in the parking lot, and reduce accidents from ice that develops on the walkways in winter months.
- ☐ Created a comprehensive strategic facilities plan for the next twenty (20) years.

Florence-Carlton K-12 Schools
Ravalli County
Quality Schools Planning Grant
2011 Biennium

Commerce awarded a Quality Schools Planning Grant to the Florence-Carlton K-12 School District in the amount of \$12,416.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$12,416	80% of Project
Florence-Carlton K-12 Schools	Building Reserve Fund	\$3,104	20% of Project
Project Total		\$15,520	

Project Summary

History – The Florence-Carlton K-12 School District conducted an energy audit via Quick Start grant funds. The audit outlined opportunities for projects that could provide energy savings and substantially upgrade the educational environment within the schools.

Problem – The school district had the following deficiencies:

- ☐ No established plan to optimize facility functionality for the next 20 years.
- ☐ Wasted energy and high utility bills due to outdated energy and heating systems.
- ☐ Needed improvements in facility designs in all grade levels to enhance student and faculty performances.

Proposed Solution – The proposed project:

- ☐ Organized a master planning, programming and vision work shop to prioritize the needs of the district for the next 20 years.
- ☐ Provided plans to supplement capital funding through leveraged energy savings, decrease utility usage by 15% to 25%, improve the HVAC system operation, and establish remote monitoring and maintenance of this system.
- ☐ Provided plans to improve ingress and egress, ADA compliance, lighting quality, indoor air quality, thermal comfort to enhance the educational experience.

Frenchtown K-12 Schools
Missoula County
Quality Schools Planning Grant
2011 Biennium

Commerce awarded a Quality Schools Planning Grant to the Frenchtown K-12 School District in the amount of \$11,369.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$11,369	80% of Project
Frenchtown K-12 Schools	General Fund	\$2,842	20% of Project
Project Total		\$14,211	

Project Summary

History – The Frenchtown K-12 School District conducted an energy audit in 2009, which provided recommendations for changes to the current operation and maintenance systems that would conserve energy and reduce utility costs by \$25,000 to \$35,400 per year. This district was recently burdened with the closure of the Smurfit Stone Container Mill, which resulted in the mill not paying the school district taxes in the past 12 months. The mill's closure caused the school to lose approximately 25% of the district's taxable value.

Problem – The school district had the following deficiencies:

- ☐ Inefficient and outdated mechanical and electrical systems that were costing the district unnecessary charges in maintenance and utility bills.
- ☐ Deficient funds via taxes due to the closure of the Smurfit Stone Container Mill.

Proposed Solution – The proposed project:

- ☐ Provided plans for an upgrade to the design of mechanical and electrical systems in the K-6 facilities, including retro-commissioning, pipe insulation, lighting replacement, modifications to the HVAC equipment and the replacement of existing pump motors with variable frequency drive motors to preserve energy efficiency.
- ☐ Provided plans to install energy conservation systems in the 7-12 grade facilities, which were planned and designed via funds provided by the Quick Start Program.

**Gildford Colony Elementary
Hill County
Quality Schools Planning Grant
2011 Biennium**

Commerce awarded a Quality Schools Planning Grant to the Gildford Colony Elementary District in the amount of \$25,000.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$25,000	71% of Project
Gildford Colony Elementary	Donation	\$10,000	29% of Project
Project Total		\$35,000	

Project Summary

History – The Gildford Colony School District is housed in a 24ft long and 10ft wide mobile constructed in 1972 as a family dwelling. It was described as having poor construction, and new health and safety regulations, academic standards and education laws made it inefficient for educational purposes.

Problem – The school district had the following deficiencies:

- ☐ Inability in meeting code standards for safety, handicap accessibility and student instruction as the school was housed in a mobile home.
- ☐ Insufficient physical and occupational therapy services that were noncompliant with ADA standards.
- ☐ Noncompliance with accreditation standards regarding ingress and egress, basic classroom standards and storage space.

Proposed Solution – The proposed project:

- ☐ Provided plans to construct a new facility designed to meet all codes for safety, handicap accessibility, energy conservation, and student instruction.
- ☐ Developed plans for a new facility that ensured ADA standards were apparent.
- ☐ Met accreditation standards with the new facility's design.

Great Falls Public Schools
Cascade County
Quality Schools Planning Grant
2011 Biennium

Commerce awarded Quality Schools Planning Grant to the Great Falls Elementary and High School Districts in the amount of \$25,000.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$25,000	80% of Project
Great Falls Public Schools	General Fund	\$6,250	20% of Project
Project Total		\$31,250	

Project Summary

History – The Great Falls Public School District hired a contractor to perform an investment grade audit of the facilities with funds provided by Quick Start grants. This audit revealed potential enhancements to the facilities that would reduce energy costs, and improve life safety and code compliance.

Problem – The school district had the following deficiencies:

- ☐ Failure to meet safety and standard codes through poor air quality and obstructed view of entrances.
- ☐ Inability to abide by current building code stipulations.
- ☐ Restricted use of outdated technology systems.
- ☐ Inefficient energy usage by outdated lighting, control and HVAC systems.

Proposed Solution – The proposed project:

- ☐ Created a Master Plan to ensure compliance with current safety and code standards, which prioritized the costs associated with, and developed schematic drawings of, the renovations in this district.
- ☐ Provided plans for installation of new cost-effective and energy-efficient HVAC systems.
- ☐ Provided design and environmental quality updates for a comfortable and safe educational facility.

Hamilton K-12 Schools
Ravalli County
Quality Schools Grant Program
2011 Biennium

Commerce awarded a Quality Schools Planning Grant to the Hamilton K-12 School District in the amount of \$19,000.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$19,000	80% of Project
Hamilton K-12 School District	Mitigation Fees	\$4,750	20% of Project
Project Total		\$23,750	

Project Summary

History – The Hamilton K-12 School District hired a contractor to perform an energy audit on the Washington Elementary School, which recommended potential upgrades to the facility, such as replacing building materials holding dangerous substances and increasing the environmental quality in the facility.

Problem – The school district had the following deficiencies:

- ☐ Insufficient building features, such as the insulation, windows, electric and heating controls and lighting, which have been causing expensive and unnecessary utility bills in the school.
- ☐ Hazardous building materials that may contain asbestos risking the safety and well-being of students and faculty.

Proposed Solution – The proposed project:

- ☐ Developed a plan to decrease the facility's energy usage by 15% to 25% through the installation of energy conservative materials.
- ☐ Possibly leveraged the energy savings available to supplement the school district's capital in future facility renovations.
- ☐ Provided a plan to replace old building materials to alleviate the health risks associate with asbestos and other contaminants.

Havre Public Schools
Hill County
Quality Schools Planning Grant
2011 Biennium

Commerce awarded a Quality Schools Planning Grant to the Havre Elementary and High School District in the amount of \$25,000.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$25,000	16% of Project
Havre Public School District	Elementary Reserve Fund	\$135,000	84% of Project
Project Total		\$160,000	

Project Summary

History – The Havre Public School District hired a contractor to prepare a Preliminary Architectural Report (PAR) for a building addition to the Highland Park South Elementary School. This report recommended adding new classrooms, offices and restrooms to the existing facility.

Problem – The school district had the following deficiencies:

- ☐ Outdated roofing and heating and ventilation systems that do not comply with state and federal building codes.
- ☐ Failure in meeting accreditation standards regarding access to specified services, such as Special Education classrooms.
- ☐ Limited space available for faculty, staff and students in an educational facility.

Proposed Solution – The proposed project:

- ☐ Supplemented expenses associated with planning this classroom expansion project.
- ☐ Provided plans for an addition on the Highland Park South Elementary School that will incorporate updated roofing, heating and ventilation systems, which will abide by state and federal building codes.
- ☐ Provided plans to enable the school to comply with accreditation standards through new Special Education classrooms.
- ☐ Produced information that will enable the district to reduce energy use in the new addition to decrease future utility bills.
- ☐ Provided plans to enhance the educational experience for faculty, staff and students at this facility.

Laurel High School
Yellowstone County
Quality Schools Planning Grant
2011 Biennium

Commerce awarded a Quality Schools Planning Grant to the Laurel High School District in the amount of \$21,661.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$21,661	80% of Project
Laurel High School District	General Fund	\$5,415	20% of Project
Project Total		\$27,076	

Project Summary

History – The Laurel Public School District's High School facility had a number of needed upgrades to reduce energy costs, improve student and faculty health and safety, and comply with current building codes. The school district's board intended to hire an engineer to remedy the current deficiencies.

Problem – The school district had the following deficiencies:

- ☐ Outdated and inefficient roofing system, which has a deteriorating bladder causing leaks and a potential mold issue throughout the building.
- ☐ Inefficient light fixtures in the gym that consume power when room is not used.
- ☐ Excess energy consumption from various vintages of electronic control systems.
- ☐ Wasteful heating system that violates current energy codes.

Proposed Solution – The proposed project:

- ☐ Proposed plans to upgrade the roof material to save approximately \$26,000 a year in heating and energy bill costs.
- ☐ Provided recommendations to replace gym light fixtures with high output florescent lights, which can be turned off when the space is not used and save around \$2,868 yearly in electricity bills.
- ☐ Provided recommendations to install a full DDC system, which will save on costs associated with maintenance and energy usage of around \$30,000 annually.
- ☐ Developed plans to convert the current heating system to a Variable Air Volume system to reduce both fan and heat area usage saving around \$8,346 per year.

Libby K-12 Schools
Lincoln County
Quality Schools Planning Grant
2011 Biennium

Commerce awarded a Quality Schools Planning Grant to the Libby K-12 School District in the amount of \$25,000.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$25,000	56% of Project
Libby K-12 School District	General Fund	\$19,280	44% of Project
Project Total		\$44,280	

Project Summary

History – The Libby K-12 School District planned for a replacement or remodel of the existing Asa Wood Elementary School. The original school's structure dates back to 1953 and has a number of major health concerns to those that use the facility, and code violations from minimal updates throughout its existence.

Problem – The school district had the following deficiencies:

- ☐ Health concerns associated with vermiculite in the walls containing asbestos and mold developing along the pipes in the current facility.
- ☐ Code violations, including exit corridors being used for lunch rooms.

Proposed Solution – The proposed project:

- ☐ Created a Preliminary Architectural Report for a replacement or remodel project on the existing Asa Wood Elementary School to eliminate hazardous contaminants and comply with code standards.
- ☐ Identified options for future facility needs and renovations to use energy efficient "green" construction materials.

Livingston High School
Park County
Quality Schools Planning Grant
2011 Biennium

Commerce awarded Quality Schools Planning Grant to the Livingston High School District in the amount of \$21,750.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$21,750	75% of Project
Livingston High School District	Flex Fund	\$7,250	25% of Project
Project Total		\$29,000	

Project Summary

History – The Livingston High School District needed to complete planning to incorporate energy efficiency upgrades, deferred maintenance projects, and correction of code compliance issues identified in a January 2009 Facility Assessment of the Park High School.

Problem – The school district had the following deficiencies:

- ☐ Noncompliance with federal and state code standards.
- ☐ Inefficient energy use via outdated mechanical and energy systems.
- ☐ Safety concerns found in the current sprinkler and fire systems, and the need to correct a “dead-end” corridor, which was hazardous in the event of an evacuation.

Proposed Solution – The proposed project:

- ☐ Completed the master planning effort and began a comprehensive renovation of Park High School.
- ☐ Provided plans to market the renovations to the community to support the successful passage of a school bond to secure added funds.
- ☐ Developed plans to construct an update on the Park High School facility to meet code standards, increase energy efficiency, enhance educational opportunities through technological upgrades, and meet additional life, health and safety codes.

Lolo Elementary
Missoula County
Quality Schools Grant Program
2011 Biennium

Commerce awarded a Quality Schools Planning Grant to the Lolo Elementary District in the amount of \$12,416.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$12,416	80% of Project
Lolo Elementary School District	Building Reserve Fund	\$3,104	20% of Project
Project Total		\$15,520	

Project Summary

History – The Lolo Elementary District has been housed in a two-room school house with some additions added throughout the early part of the century. The school district and community planned to utilize some of its building reserve levy funds to aid in funding a long range renovation project for the schools in this district.

Problem – The school district had the following deficiencies:

- ☐ Public safety concerns regarding the school parking lot and drop off location for staff and students which backs cars onto a dangerous highway two times a day.
- ☐ Need for basic fire suppression, exit routes and ventilation systems in the district facilities to meet code concerns.
- ☐ Regular instances of frozen plumbing systems in the winter months.
- ☐ Accessibility challenges via a drastic grade change due to the district buildings being located on a rocky hillside and gravel pit.
- ☐ Insufficient space for an increasing population of special needs students.
- ☐ Inefficient mechanical, electrical and control systems identified in a recent energy audit.
- ☐ Technological limitations for the facility networks.

Proposed Solution – The proposed project:

- ☐ Completed the master planning effort to provide a facility assessment, conducted an educational planning workshop and developed a master plan to address the long term needs of the district prior to investing in the renovation, expansion or replacement of existing facilities.
- ☐ Provided plans to enable renovations to begin; expanding or replacing existing facilities in the school district to enhance safety concerns, comply with federal and state code standards, and meet the needs of students and faculty to broaden the technological usage and educational experiences.

Malta K-12 Schools
Phillips County
Quality Schools Planning Grant
2011 Biennium

Commerce awarded a Quality Schools Planning Grant to the Malta K-12 School District in the amount of \$19,112.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$19,112	80% of Project
Malta K-12 School District	General Fund-Maintenance and Operation	\$4,778	20% of Project
Project Total		\$23,890	

Project Summary

History – The Malta K-12 School District hired contractors to perform an audit of the district's facilities. This audit identified a major issue with the elementary school's dated heating and piping systems.

Problem – The school district had the following deficiencies:

- ☐ Expensive and constant mechanical issues due to the school having an outdated boiler system.
- ☐ Hazardous copper and steel piping used in the floors that are more susceptible to deterioration, rupture and subsequent flow of pressurized water and steam into a classroom.

Proposed Solution – The proposed project:

- ☐ Completed the planning efforts associated with replacing the boiler system in the elementary school building with a high efficiency, condensing boiler system.
- ☐ Developed plans to replace copper and steel piping with reliable, durable piping.

Miles City Elementary
Custer County
Quality Schools Grant Program
2011 Biennium

Commerce awarded a Quality Schools Planning Grant to the Miles City Elementary District in the amount of \$7,120.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$7,120	80% of Project
Miles City Elementary District	General Fund	\$1,780	20% of Project
Project Total		\$8,900	

Project Summary

History – The Miles City Elementary District is home to Washington Junior High School. The main building of this campus was constructed in 1912 with two wings added in 1916. Subsequently, the school had outdated heating and ventilation systems.

Problem – The school district had the following deficiencies:

- ☐ Inefficient and outdated steam heating system.
- ☐ Failure of ventilation system to remain in working order and remain in compliance with current building codes.

Proposed Solution – The proposed project:

- ☐ Enabled the adoption of engineering planning services to investigate the replacement options for the HVAC system at the Washington Junior High School.
- ☐ Investigated ventilation options to bring the school into compliance with current building codes, and provided plans to install a more energy-efficient system.

Monforton Elementary
Gallatin County
Quality Schools Planning Grant
2011 Biennium

Commerce awarded a Quality Schools Planning Grant to the Monforton Elementary District in the amount of \$25,000.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$25,000	39% of Project
Monforton Elementary District	Building Reserve Fund	\$39,800	61% of Project
Project Total		\$64,800	

Project Summary

History – The Monforton Elementary District hired a consultant to perform an Impact Fee Study (Comment: Solutions do not discuss impact fee) in 2006-2007. This study predicted that enrollment would increase by approximately 14 students per year, which makes it difficult for the school to comply with accreditation standards and budget codes without renovations to the facility buildings.

Problem – The school district had the following deficiencies:

- ☐ The K-2nd Grade facility failed to meet access, fire, ADA and other codes by having a poor design not sufficient for rapid evacuations.
- ☐ Outdated and inadequate mechanical and electrical systems in the 3-8 Grade building, which did not meet current indoor air quality codes.
- ☐ Difficulty of both facilities in meeting accreditation standards in classroom size as the group of school age children increases in number.

Proposed Solution – The proposed project:

- ☐ Created a Preliminary Architectural Report (PAR) to address facility deficiencies in both design and mechanic and electrical systems, addressed by the impact fee study conducted in 2006-2007..
- ☐ Provided plans to add on to, or construct new classrooms and administrative space in both facilities, to meet current building and fire codes, and comply with accreditation standards.

**Montana City Elementary
Jefferson County
Quality Schools Planning Grant
2011 Biennium**

Commerce awarded a Quality Schools Planning Grant to the Montana City Elementary District in the amount of \$25,000.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$25,000	80% of Project
Montana City Elementary	General Fund	\$6,250	20% of Project
Project Total		\$31,250	

Project Summary

History – The Montana City Elementary Board of Trustees created a Comprehensive Facility Planning Committee in the fall of 2006. An action plan was developed to proactively manage the effects of student enrollment growth on the school's facilities and the school's ability to provide educational programs. In the process of implementing the changes recommended by the committee, it was determined that a more comprehensive facility plan was needed to investigate the best method to expand classroom space to satisfy growing numbers of students.

Problem – The school district had the following deficiencies:

- ☐ Insufficient space and increased security risks for a growing number of enrolled students.
- ☐ Difficulties in complying with accreditation standards based on student space for the 3rd grade and above classrooms.
- ☐ Inadequate amount of drinking water supply, which needs constant disinfection services.

Proposed Solution – The proposed project:

- ☐ Created a Preliminary Engineering Report to evaluate the district's options to expand the current facility or relocate the school to a larger property.
- ☐ Provided plans to install a wastewater treatment system to accommodate future growth.
- ☐ Provided plans to potentially demolish inefficient facilities to make way for new structures to best utilize site's availability.

Noxon Public Schools
Sanders County
Quality Schools Planning Grant
2011 Biennium

Commerce awarded a Quality Schools Planning Grant to the Noxon Elementary and High School Districts in the amount of \$7,456.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$7,456	80% of Project
Noxon Public Schools	General Fund	\$1,864	20% of Project
Project Total		\$9,320	

Project Summary

History – The Noxon Public School is located 2.5 miles below the Noxon Rapids Dam. The facility has the potential to flood if the dam were to ever fail.

Problem – The school district has the following deficiencies:

- ☐ Safety and security risks regarding the absence of an established evacuation plan in the event of a flood.
- ☐ Inefficient facility design and notification systems hindering the flow of exiting students and faculty members.
- ☐ Noncompliance with standard building codes.

Proposed Solution – The proposed project:

- ☐ Created a Preliminary Architectural Report (PAR) to determine the impact on the school if the dam were to ever fail.
- ☐ Produced sketches of improvements to comply with standard building codes and cost estimates of planned renovations.
- ☐ Established a documented "Evacuation Procedure" for the school.

Plains Elementary
Sanders County
Quality Schools Planning Grant
2011 Biennium

Commerce awarded a Quality Schools Planning Grant to the Plains Elementary District in the amount of \$25,000.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$25,000	80% of Project
Plains Elementary District	Building Maintenance Fund	\$6,250	20% of Project
Project Total		\$31,250	

Project Summary

History – The Plains Elementary District Wild Horse School's K-2 facility is located a block away from the main campus. Students walk two blocks (to and from) lunch services, music and PE classes along a city street.

Problem – The school district had the following deficiencies:

- ☐ Safety and security risks associated with young students walking along a busy city street.
- ☐ Loss of approximately three (3) weeks of classroom instruction time when the students travelled back and forth throughout the course of an academic year.
- ☐ Exposure to extreme weather conditions for the very young or for students who, due to the economic disadvantaged status of many families, did not have cold weather gear.
- ☐ Inefficient energy systems in the main building.

Proposed Solution – The proposed project:

- ☐ Created a master plan to relocate the remote Wild Horse School to the main campus of the district to increase the health and safety of approximately eighty (80) K-2 students.
- ☐ Potentially released more instruction time as students would spend less time traveling between facilities.
- ☐ Provided plans to improve energy efficiency on the main campus, as the heating system will be upgraded from electricity to propane.

**Polson High School
Lake County
Quality Schools Planning Grant
2011 Biennium**

Commerce awarded a Quality Schools Planning Grant to the Polson High School District in the amount of \$25,000.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$25,000	64% of Project
Polson High School District	Impact Aid Funds	\$14,250	36% of Project
Project Total		\$39,250	

Project Summary

History – The Polson Public School District hired a consultant to audit the four schools in the district. The audit, determined that the High School was in greatest need of renovation to increase utility bill savings and improve the health and safety of the students and faculty.

Problem – The school district had the following deficiencies:

- ☐ Outdated and insufficient roof on the high school that was found to contain asbestos.
- ☐ Expensive electric heaters that created high utility bills.
- ☐ Poor indoor air quality due to insufficient ventilation systems that produced safety, health and code violations.
- ☐ Inaccessible exits and entrances that did not comply with ADA standards.
- ☐ Potential for wasted energy and high utility bills due to an upgrade of the HVAC system having not been retrofitted to adjust to changing temperatures.

Proposed Solution – The proposed project:

- ☐ Propose a plan to replace the roof with energy efficient, non-hazardous materials.
- ☐ Redesigned existing facilities to comply with ADA standards.
- ☐ Provided plans to improve indoor air ventilation systems to reduce safety and health risks while abiding by building code standards and increasing energy-saving benefits.
- ☐ Provided information to potentially convert the existing electric heating system to a system that uses propane or biomass.
- ☐ Provided plans to allow the district to proceed with a Retro-Commissioning phase to ensure adequate savings are achieved through the use of the HVAC system.

**Poplar Public Schools
Roosevelt County
Quality Schools Planning Grant
2011 Biennium**

Commerce awarded a Quality Schools Planning Grant to the Poplar Elementary and High School Districts in the amount of \$15,409.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$15,409	80% of Project
Poplar Public Schools	Impact Aid Funds	\$3,852	20% of Project
Project Total		\$19,261	

Project Summary

History – The Poplar Public School District conducted a Facility Condition Inventory and an energy audit, which outlined needed improvements in the district. A fee proposal was provided by an engineering firm, and a programming and visioning workshop was conducted to prioritize these needs.

Problem – The school district had the following deficiencies:

- ☐ Maintenance and code issues in the K-4 Elementary building, including piping leaks in the waste disposal sewer lines.
- ☐ Health risks associated with separate facets for hot and cold water in K-1 Elementary School sinks, and an insufficient air conditioning system in the high school.
- ☐ Safety risks due to blind spots in the facility's buildings and playground.
- ☐ Hazardous materials, such as asbestos, used in the building's construction and on the high school's roof.
- ☐ Noncompliance with ADA standards.
- ☐ Inefficient boilers and continually powered computer systems in the school's facilities that waste energy and increase utility bills.

Proposed Solution – The proposed project:

- ☐ Proposed a plan to replace solid waste disposal sewer lines and piping in the K-4 elementary building.
- ☐ Provided plans to integrate separate hot and cold facets in the K-1 bathroom sinks and replace the outdated air conditioner in the high school.
- ☐ Suggested installation of camera monitors in blind spots in buildings and address code/safety issues with the playground.
- ☐ Provided changes to remove hazardous materials from the facility structures.
- ☐ Investigated renovations to ensure ADA and IBC compliance.
- ☐ Assessed additional facility changes that would conserve energy and decrease utility bills.

**Powder River County High School
Powder River County
Quality Schools Grant Program
2011 Biennium**

Commerce awarded a Quality Schools Planning Grant to the Powder River County High School District in the amount of \$5,000.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$5,000	80% of Project
Powder River Co HS District	Local Cash Reserves	\$1,250	20% of Project
Project Total		\$6,250	

Project Summary

History – The Broadus Public Schools were in need of a consultant's professional advice and training to correctly identify building materials that contain asbestos in the elementary and high school buildings. This school district also required a prioritized list of projects and cost estimates to remove this hazardous material and fund building renovations.

Problem – The school district had the following deficiencies:

- ☐ Safety and health risks associated with students learning and faculty working in buildings having asbestos.
- ☐ Insufficient funds to hire a consultant to identify the hazardous substance, provide a prioritization list of projects, and estimate cost calculations to remove the substance and renovating the buildings.

Proposed Solution – The proposed project:

- ☐ Hired a consultant to identify buildings that contained asbestos.
- ☐ Developed a prioritization list of renovation projects, and estimated costs for the removal of asbestos and an upgrade on the schools' building materials.

Power Public Schools
Teton County
Quality Schools Planning Grant
2011 Biennium

Commerce awarded a Quality Schools Planning Grant to the Power Elementary and High School Districts in the amount of \$25,000.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$25,000	80% of Project
Power Public Schools	Building Reserve Fund	\$6,250	20% of Project
Project Total		\$31,250	

Project Summary

History – The Power Public School District gathered information from a variety of sources including the Facilities Condition Index Study, and architectural and engineering review sessions on needed facility renovations. The top priority changes and upgrades were outlined via these sources.

Problem – The school district had the following deficiencies:

- ☐ Safety risks due a dated and insufficient roof that was leaking, and crumbling ceiling material that was falling off the ceiling and falling onto the gym floor.
- ☐ Lost energy due to a reduction in the insulation value of the roof system.

Proposed Solution – The proposed project:

- ☐ Evaluated the design plan for a new roof for the facility and acoustical ceiling upgrades in the gymnasium.
- ☐ Provided plans to enable the installation of an energy efficient and code compliant roof for the facility.

**Sidney Public Schools
Richland County
Quality Schools Planning Grant
2011 Biennium**

Commerce awarded a Quality Schools Planning Grant to the Sidney Elementary and High School Districts in the amount of \$25,000.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$25,000	80% of Project
Sidney Public Schools	General Fund	\$6,250	20% of Project
Project Total		\$31,250	

Project Summary

History – The Sidney Public School District has four major educational facilities, each with unique needs associated with the age of the facility, type of construction, and function. Two firms were hired to complete a comprehensive K-12 Facility Plan to prioritize these projects.

Problem – The school district had the following deficiencies:

- ☐ Absence of a coordinated plan that prioritized and phased projects based on budgetary constraints.
- ☐ Difficulties in meeting accreditation standards due to outdated designs.
- ☐ Outdated alarm system in the elementary school that did not pass building code standards.
- ☐ Insufficient space in the middle school to accommodate technological and instructional classrooms.
- ☐ Inefficient heating and cooling systems, and added technological deficiencies in the high school.

Proposed Solution – The proposed project:

- ☐ Provided a comprehensive K-12 Facility Plan to the School Trustees to prioritize and budget projects that meet accreditation standards.
- ☐ Provided plans to replace the outdated alarm system in the elementary school with a new system.
- ☐ Proposed a plan to expand the Middle School classrooms to provide adequate space for students and faculty.
- ☐ Developed a plan to upgrade heating and cooling systems, and broaden technological capabilities in the high school facility.

St. Ignatius K-12 Schools
Lake County
Quality Schools Planning Grant
2011 Biennium

Commerce awarded a Quality Schools Planning Grant to the St. Ignatius K-12 School District in the amount of \$25,000.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$25,000	14% of Project
St. Ignatius K-12 School District	Impact Aid Funds	\$157,802	86% of Project
Project Total		\$182,802	

Project Summary

History – The St Ignatius K-12 School District hired a consultant to complete a Master Plan for facility upgrades. Based on the Master Plan and available funds the School Board authorized renovation projects for both the elementary and high school facilities.

Problem – The school district has the following deficiencies:

- ☐ Inefficient and unsafe boiler system in the elementary school.
- ☐ Technological deficiencies due to the absence of an adequate computer lab in the elementary and high school facilities.
- ☐ Inadequate space provided in the district's high school for the administrative and educational services it intends to provide the student body.

Proposed Solution – The proposed project:

- ☐ Provided a plan to increase energy efficiency by replacing the boiler.
- ☐ Developed a plan to transfer the music room into a computer lab for the elementary school.
- ☐ Provided plans to add new offices, a student commons and a computer lab in the high school.

Stanford K-12 Schools
Judith Basin County
Quality Schools Planning Grant
2011 Biennium

Commerce awarded a Quality Schools Planning Grant to the Stanford K-12 School District in the amount of \$25,000.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$25,000	80% of Project
Stanford K-12 School District	Flex Fund	\$6,250	20% of Project
Project Total		\$31,650	

Project Summary

History – The Stanford K-12 School District hired an architectural firm to conduct a preliminary assessment of facility improvements. A Preliminary Architectural Report (PAR) provided solutions to the issues listed in the assessment.

Problem – The school district had the following deficiencies:

- ☐ Inoperable and unsafe ventilations system in the Mechanical Arts Shop and science rooms.
- ☐ Insufficient amount of space that caused overlaps in educational programming areas; no designated weight training, physical therapy or speech therapy areas.
- ☐ Health and life safety risks stemmed from an outdated boiler and ventilation systems.

Proposed Solution – The proposed project:

- ☐ Provided a plan to install energy efficient ventilation systems in the Mechanical Arts Shop and science rooms that will comply with current local, state and federal life safety and fire codes.
- ☐ Developed and will implement a feasibility study to determine the viability of new building to alleviate program and classroom overlaps.
- ☐ Provided plans to replace the ventilator and boiler systems to reach maximum energy efficiency and long-term financial gains for the district.

Superior K-12 Schools
Mineral County
Quality Schools Planning Grant
2011 Biennium

Commerce awarded a Quality Schools Planning Grant to the Superior K-12 School District in the amount of \$25,000.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$25,000	73% of Project
Superior K-12 School District	Building Reserve Fund	\$9,155	27% of Project
Project Total		\$34,155	

Project Summary

History – The Superior K-12 School District worked with an architecture firm to design renovations after the district identified ADA and Title IX deficiencies in the high school facility. The school was constructed in 1962 and was not designed to meet the current requirements.

Problem – The school district had the following deficiencies:

- ☐ Non ADA and Title IX compliance for the accessibility of rest rooms in the high school building.
- ☐ Absence of a public bathroom in the high school's gymnasium, and lack of proper space in both male and female locker rooms.

Proposed Solution – The proposed project:

- ☐ Propose a project that will abide by ADA and Title IX standards by adding handicap restrooms in the high school building.
- ☐ Provided plans to add public restrooms and enough space to accommodate male and female athletes in the gymnasium.

Thompson Falls Public Schools
Sanders County
Quality Schools Planning Grant
2011 Biennium

Commerce awarded a Quality Schools Planning Grant to the Thompson Falls Elementary and High School District in the amount of \$11,800.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$11,800	80% of Project
Thomson Falls Public Schools	General Fund	\$2,950	20% of Project
Project Total		\$14,750	

Project Summary

History – The Thompson Falls Public School District identified safety concerns on the campuses of their educational facilities. These facilities were constructed more than 50 years ago before safety standards and codes were enacted.

Problem – The school district had the following deficiencies:

- ☐ Safety risks associated with pedestrians, vehicles, and topography and weather concerns on the exterior areas of the elementary and middle school and high school campuses.
- ☐ Hazardous gymnasium bleachers that had no aisles and are open to the space beneath them.

Proposed Solution – The proposed project:

- ☐ Estimated the costs of renovations in a Preliminary Architectural Report (PAR) that would minimize the exposure of the students, faculty and community members to the unsafe conditions on the educational facility campuses.
- ☐ Investigated solutions to improve or replace the gymnasium bleachers.

Townsend K-12 Schools
Broadwater County
Quality Schools Planning Grant
2011 Biennium

Commerce awarded a Quality Schools Planning Grant to the Townsend K-12 School District in the amount of \$11,600.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$11,600	80% of Project
Townsend K-12 School District	General Fund	\$2,900	20% of Project
Project Total		\$14,500	

Project Summary

History – The Townsend K-12 Public School District identified several deficiencies during an assessment funded by the Quick Start Program. A consulting firm, which conducted this assessment, prioritized three renovations that had a direct impact on safety and code issues.

Problem – The school district had the following deficiencies:

- ☐ Public health concerns and noncompliance with building codes that resulted from outdated ventilation systems in the elementary school.
- ☐ Insufficient design in the study hall for air flow, which inhibited temperature control and subsequently, student attentiveness in this space.
- ☐ Unsafe and unreliable fired gas heater with a dirty and hard to clean "heat wheel," which decreased the air quality as these particles were recycled back into the facility's classrooms and offices.

Proposed Solution – The proposed project:

- ☐ Proposed a project to remedy poor air quality and comply with code standards by installing new heating and ventilation systems.
- ☐ Investigated solutions to remedy improper air flow in the facility's study hall.
- ☐ Provided plans to change the heat source in the current unit to hot water or gas heat, while utilizing the current system's main component.

**Troy Public Schools
Lincoln County
Quality Schools Planning Grant
2011 Biennium**

Commerce awarded a Quality Schools Planning Grant to the Troy Elementary and High School Districts in the amount of \$25,000.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$25,000	80% of Project
Troy Public Schools	Metal Mines Fund	\$6,250	20% of Project
Project Total		\$31,000	

Project Summary

History – The Troy Public School District identified several safety concerns at the Morrison Elementary and Junior High campuses.

Problem – The school district had the following deficiencies:

- ☐ Noncompliance with current access, fire, ADA and other codes in the junior high building.
- ☐ Outdated and unsafe doors and stairways, crumbling sidewalks, and storm drainage problems in the junior high building.
- ☐ Overloaded electricity and data transmission circuits in the elementary school that did not comply with current building codes.

Proposed Solution – The proposed project:

- ☐ Identified a plan for the elimination of safety and code deficiencies in the junior high facility via a Preliminary Architectural Report (PAR)
- ☐ Investigated cost effective and energy efficient solutions to remedy the issue of overloaded electricity and data transmission circuits in the elementary school by using the PAR.

White Sulphur Springs Public Schools
Meagher County
Quality Schools Planning Grant
2011 Biennium

Commerce awarded a Quality Schools Planning Grant to the White Sulphur Springs Elementary and High School Districts in the amount of \$3,744.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$23,744	80% of Project
White Sulphur Springs School District	Building Reserve Fund	\$5,936	20% of Project
Project Total		\$29,680	

Project Summary

History – The White Sulphur Springs Public School is a K-12 facility, but the junior high and high school departments have been housed in a single building. A building committee composed of members appointed by the Board of Trustees and the school board gathered information from a variety of resources, including the Facilities Condition Index Study, architectural and engineering review sessions, and maintenance personnel to identify maintenance renovations of the facility.

Problem – The school district had the following deficiencies:

- ☐ Insufficient boiler and heat distribution systems and evidence of asbestos contaminated insulation used in the building.
- ☐ Noncompliance of locker room shower facilities with ADA and health codes.
- ☐ Outdated and leaking roof on the facility.

Proposed Solution – The proposed project:

- ☐ Developed plans to install an updated or new energy efficient boiler system in the high school and junior high school facilities that will comply with health and safety codes.
- ☐ Provided a plan to update the current facility's locker room showers to meet ADA and health code standards.
- ☐ Provided plans for an update or reroof the facility.

Whitefish High School
Flathead County
Quality Schools Planning Grant
2011 Biennium

Commerce awarded a Quality Schools Planning Grant to the Whitefish High School District in the amount of \$13,200.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$13,200	80% of Project
Whitefish High School District	Tax Increment Finance Funds	\$3,300	20% of Project
Project Total		\$16,500	

Project Summary

History – The Whitefish High School District developed a long term plan for a new school based upon two years of input from students, faculty, parents and the community. The existing facility's core was built in the 1950's and did not comply with current facility and educational standards.

Problem – The school district had the following deficiencies:

- ☐ Inability of current facility to comply with current safety, ADA, and fire codes.
- ☐ Operational inefficiencies from outdated utility systems.
- ☐ Technological and instructional limitations due to a lack of space.

Proposed Solution – The proposed project:

- ☐ Created a Preliminary Architectural Report (PAR) to plan the construction of new buildings that potentially use salvaged materials from existing facilities.
- ☐ Developed a plan to construct a new energy efficient facility designed to last for 50 years or more of student growth and technological innovation.
- ☐ Provided plans to ensure the future facility would comply with safety, ADA, and fire code standards.

Whitehall Elementary
Jefferson County
Quality Schools Planning Grant
2011 Biennium

Commerce awarded a Quality Schools Planning Grant to the Whitehall Elementary District in the amount of \$25,000.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$25,000	80% of Project
Whitehall Elementary District	Cash Reserves	\$6,250	20% of Project
Project Total		\$31,250	

Project Summary

History – The Whitehall Public School District hired an engineering firm to prepare an analysis of the district's facilities that were in need of renovations. This analysis outlined the major changes that needed to be prioritized.

Problem – The school district had the following deficiencies:

- ☐ Outdated, inefficient and leaking roof that does not drain properly and might be producing mold.
- ☐ Noncompliance with civil rights standards in the restrooms and shower rooms.
- ☐ Insufficient rooftop heating and mechanical units.
- ☐ Obsolete supplies in the science labs.
- ☐ Worn carpeting throughout the building.
- ☐ Structural deficiencies in the bleachers and in the building that houses sport training areas.

Proposed Solution – The proposed project:

- ☐ Created a Preliminary Engineering Report (PER) to plan a reroofing project that will be energy efficient and comply with current building codes.
- ☐ Provided information to address civil rights violations in the restroom and shower facilities, solve mechanical and heating problems, update supplies in the science labs.
- ☐ Provided plans to replace the carpeting throughout the building.
- ☐ Provided plans to renovate the bleachers and provide an energy efficient building for sport training and storage.

**Winnett K-12 Schools
Petroleum County
Quality Schools Planning Grant
2011 Biennium**

Commerce awarded a Quality Schools Planning Grant to the Winnett K-12 School District in the amount of \$13,640.

Funding Source	Type of Funds	Amount	Project %
Commerce	Quality Schools Planning Grant	\$13,640	80% of Project
Winnett K-12 Schools	General Funds	\$3,410	20% of Project
Project Total		\$17,050	

Project Summary

History – The Winnett K-12 School District and surrounding community has been dependent on the surrounding agricultural land to support its economy. The District is in need of vocational and technical facilities to better prepare students for careers outside of the community.

Problem – The school district had the following deficiencies:

- ☐ Inefficient space for vocational and technical programs in the current facility that did not comply with fire codes and state school standards.

Proposed Solution – The proposed project:

- ☐ Proposed a plan to construct a new, energy efficient and code compliant metal shop building to house modern vocational and technical programs.

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2011 Biennium Quality Schools Project Grants

With the passage of HB 152, the Legislature provided for an initial appropriation of \$12 million dollars to Commerce to establish the Quality School Grant Program and fund public school planning, emergency, and project activities during the 2011 biennium.

From the \$12 million dollar appropriation, \$900,000 was allocated to Planning Grants, \$100,000 to Emergency Grants, and the remainder to project grants (HB152). Commerce received 136 applications requesting over \$76 million in aid for the first round of project grants. Staff reviewed and ranked the applications based on the criteria set forth in the Program's Application Guidelines and Administration Manual, and prioritized the applications as forth in Section 90-6-811, MCA. Commerce awarded a total of \$10,607,964 to 33 school districts. The projects include 16 energy efficiency projects, 13 projects protecting public health and safety, 3 projects that enhance educational opportunities, and 1 project to bring a school into compliance with current accreditation standards. As of December 15, 2010, 7 of the 2011 Biennium project grants have been completed and closed out.

Individual score sheets for applications and summaries for applications not awarded project grants in the 2011 biennium are available at: <http://commerce.mt.gov/qualityschools/default.mcpix>

Quality Schools 2011 Biennium Project Grants - Final Grant Awards

	HS/ELE/K12	Applicant	County	Priority	Ranking	QS Grant Award	Total Project Cost	Running Award Total
1	K-12	Huntley Project K-12	Yellowstone	4	455	\$ 363,400	\$ 713,400	\$ 10,244,564
2	ELE/HS	Cut Bank Public Schools	Glacier	4	455	\$ 676,968	\$ 901,968	\$ 9,567,596
3	ELE/HS	Cascade Public Schools	Cascade	1	454	\$ 205,600	\$ 235,197	\$ 9,361,996
4	HS	Harlem High School	Blaine	1	451	\$ 440,000	\$ 567,566	\$ 8,921,996
5	ELE	East Helena Elementary	Lewis & Clark	4	433	\$ 397,892	\$ 451,144	\$ 8,524,104
6	HS	Colstrip High School	Rosebud	4	424	\$ 225,918	\$ 325,918	\$ 8,298,186
7	ELE	Helena Elementary	Lewis & Clark	1	410	\$ 291,831	\$ 772,644	\$ 8,006,355
8	ELE	Lolo Elementary	Missoula	1	405	\$ 479,091	\$ 1,102,958	\$ 7,527,264
9	HS	Powder River County HS	Powder River	1	398	\$ 141,634	\$ 164,884	\$ 7,385,630
10	ELE	Montana City Elementary	Jefferson	4	398	\$ 161,820	\$ 289,886	\$ 7,223,810
11	ELE	Poplar Elementary	Roosevelt	1	391	\$ 78,438	\$ 98,438	\$ 7,145,372
12	K-12	Frenchtown K-12	Missoula	4	384	\$ 68,622	\$ 71,884	\$ 7,076,750
13	HS	Red Lodge High School	Carbon	3	378	\$ 1,000,000	\$ 2,400,000	\$ 6,076,750
14	ELE	Amsterdam Elementary	Gallatin	1	377	\$ 36,500	\$ 46,000	\$ 6,040,250
15	ELE	Eureka Elementary	Lincoln	4	376	\$ 355,631	\$ 355,631	\$ 5,684,619
16	ELE	Hellgate Elementary	Missoula	4	365	\$ 131,780	\$ 134,940	\$ 5,552,839
17	HS	Columbia Falls HS	Flathead	1	363	\$ 179,084	\$ 236,742	\$ 5,373,755
18	HS	Butte High School	Silver Bow	4	363	\$ 506,416	\$ 1,206,416	\$ 4,867,339
19	ELE	Miles City Elementary	Custer	4	360	\$ 265,782	\$ 325,782	\$ 4,601,557
20	ELE/HS	Augusta Public Schools	Lewis & Clark	4	355	\$ 93,500	\$ 99,400	\$ 4,508,057
21	ELE/HS	Denton Public Schools	Fergus	1	351	\$ 71,519	\$ 71,519	\$ 4,436,538
22	K-12	Winifred K-12 Schools	Fergus	1	350	\$ 100,000	\$ 165,000	\$ 4,336,538
23	K-12	Hobson K-12 Schools	Judith Basin	4	345	\$ 200,660	\$ 245,660	\$ 4,135,878
24	ELE	Kinsey Elementary	Custer	4	345	\$ 430,062	\$ 437,304	\$ 3,705,816
25	ELE	Havre Elementary	Hill	6	345	\$ 881,875	\$ 1,534,400	\$ 2,823,941
26	ELE	Helena Flats Elementary	Flathead	1	343	\$ 172,204	\$ 270,245	\$ 2,651,737
27	K-12	Hamilton K-12 Schools	Ravalli	1	336	\$ 80,179	\$ 80,179	\$ 2,571,558
28	HS	Shelby High School	Toole	4	333	\$ 170,798	\$ 170,798	\$ 2,400,760
29	ELE	Bozeman Elementary	Gallatin	4	331	\$ 705,000	\$ 2,900,000	\$ 1,695,760
30	HS	Stevensville High School	Ravalli	6	330	\$ 828,074	\$ 1,720,000	\$ 867,686
31	ELE	Big Timber Elementary	Sweet Grass	4	330	\$ 300,863	\$ 359,000	\$ 566,823
32	ELE	Monforton Elementary	Gallatin	1	330	\$ 315,480	\$ 362,480	\$ 251,343
33	K-12	Winnett K-12 Schools	Petroleum	6	329	\$ 251,343	\$ 445,400	\$ -

Total Awarded: \$ 10,607,964

PRIORITY KEY

- | | |
|-----------------------------------|--------------------------------------|
| 1 Public Health & Safety Problems | 4 Energy Efficiency Benefits |
| 2 Building Codes & Standards | 5 Technology Needs |
| 3 Accreditation Standards | 6 Enhanced Educational Opportunities |

**Huntley Project K-12 Schools
Yellowstone County
Statutory Priority #4 (Energy Efficiency Improvements)
Quality Schools Project Grant
2011 Biennium**

This application received 455 points out of a possible 500 points and ranked 2 out of 129 applications. Commerce awarded a Quality Schools Project Grant to Huntley Project K-12 School District for the 2011 Biennium in the amount of \$363,400.

Project Funding

Funding Source	Type of Funds Being Used	Amount	Project %
Commerce	Quality Schools Project Grant	\$363,400	51%
Huntley Project School District	Private Donations	\$250,000	35%
Huntley Project School District	Interest on Bond Deposits	\$100,000	14%
Project Total		\$713,400	

Project Summary

History – In 2008, the Huntley Project High School was destroyed by an arson fire. A new building was designed to replace the old high school and will be built on the same site. The new facility will be heated and cooled entirely by a geothermal heat pump system, eliminating the requirement for an underground fuel tank. As part of the construction of the new facility, various aspects of existing buildings were retrofitted for new uses. The CTE building, which includes all VO-AG classrooms and shop facilities, is located adjacent to the new facility. The CTE building was heated by electricity, a very inefficient option for the application. The electrical system was nearing the end of its useful life span and many components will need to be replaced in the near future. A 2009 Facility Review and Evaluation estimated that the cost to replace these components will be around \$200,000. The district wished to retrofit the building to incorporate it into the geothermal heat pump system that will be used for the new facility. It was the most efficient and cost-effective way to upgrade the CTE building to geothermal while the new building and heating system were being constructed.

Problem – The school district had the following deficiencies that required remedy by the proposed project:

- ☐ Inefficient electrical heating system that was nearing the end of its useful life and needed to be replaced.

Proposed Solution – The proposed project:

- ☐ Retrofitted the CTE Building to tie it into the new geothermal heating system and increased the well capacity to accommodate the additional building.

**Cut Bank Public Schools
Glacier County
Statutory Priority #4 (Energy Efficiency Improvements)
Quality Schools Project Grant
2011 Biennium**

This application received 455 points out of a possible 500 points and ranked 1 out of 129 applications. Commerce awarded a Quality Schools Project Grant to the Cut Bank Elementary and High School Districts for the 2011 Biennium in the amount of \$676,968.

Project Funding

Funding Source	Type of Funds Being Used	Amount	Project %
Commerce	Quality Schools Project Grant	\$676,968	75%
Cut Bank Public Schools	Impact Aid	\$100,000	11%
Cut Bank Public Schools	Excess Reserve	\$50,000	6%
Cut Bank Public Schools	Building Reserve	\$75,000	8%
Project Total		\$901,968	

Project Summary

History – Cut Bank Public Schools developed a five-year facilities plan for improvements to the district to increase energy-efficiency and reliability in the infrastructure. The areas identified in need of the most improvement by the facilities plan were the heating systems in the high school and middle school. This was further confirmed by an energy audit performed by CTA Architects and Engineers. The current heating system (boilers) in the facility was installed in 1964, and at 45 years old, has out-lived its life-expectancy.

Problem – The school district had the following deficiencies that required remedy by the proposed project:

- ☐ Failing boiler
- ☐ Steam heating system in continuous need of repair
- ☐ In-efficient heat control system

Proposed Solution – The proposed project:

- ☐ Replaced the existing steam boilers in the high school and middle school with high efficiency hot water boilers.
- ☐ Replaced the remaining steam piping and coils.
- ☐ Replaced all heating controls in the high school and middle school.

Note: In 2004-05, a heating and ventilation project replaced approximately one-half of all existing steam piping with a more efficient hot water system, but sufficient funds were not available to convert the entire system.

Cascade Public Schools
Cascade County
Statutory Priority #1 (Public Health and Safety)
Quality Schools Project Grant
2011 Biennium

This application received 454 points out of a possible 500 points and ranked 3 out of 129 applications. **Commerce awarded a Quality Schools Project Grant to the Cascade Elementary and High School Districts for the 2011 Biennium in the amount of \$205,600.**

Project Funding

Funding Source	Type of Funds Being Used	Amount	Project %
Commerce	Quality Schools Project Grant	\$205,600	87%
Cascade Public Schools	General Funds	\$17,185	7%
Commerce	Quality Schools Planning Grant	\$12,412	6%
Project Total		\$235,197	

Project Summary

History – The Cascade Public School was constructed in the 1950's with subsequent upgrades and additions. Since 2001, the school has had trouble with its sewer system, experiencing sewage and gases backing up through floor drains, sinks and toilets, resulting in the disruption of classes. The school has required the services of a plumbing company up to four times a year to repair the system.

Problem – The school district had the following deficiencies that required remedy by the proposed project:

- ☐ Collapsed, incorrectly installed sewer lines.
- ☐ Sewer lines penetrated by roots due to age.

Proposed Solution – The proposed project:

- ☐ Repaired the sewer lines serving the school.

Harlem High School
Blaine County
Statutory Priority #1 (Public Health and Safety)
Quality Schools Project Grant
2011 Biennium

This application received 451 points out of a possible 500 points and ranked 4 out of 129 applications. Commerce awarded a Quality Schools Project Grant to the Harlem High School District for the 2011 Biennium in the amount of \$440,000.

Project Funding

Funding Source	Type of Funds Being Used	Amount	Project %
Commerce	Quality Schools Project Grant	\$440,000	78%
Northwest Energy	Rebates	\$1,126	<1%
Harlem High School	Emergency Impact Aid	\$100,000	18%
Harlem High School	Construction Impact Aid	\$1,440	<1%
Harlem High School	Undecided	\$25,000	4%
Project Total		\$567,566	

Project Summary

History – The original structure was built in 1986. A problem with the sewer was recently exacerbated by extreme cold weather and line breakage that caused heaving and sewage to back up into the lavatories located in the shop area. All of the sewage was absorbed by the walls in the lavatory and surrounding interior walls of the shop. The heaving also affected the exterior doors and thresholds. An Emergency grant from Impact Aid Construction was awarded in 9/09 to solve the sewer line problem, however the damage that was done to the interior floors, walls, exterior doors and thresholds as a result of the sewer back up was not apparent until the fall, as the water removal gutters added to the problems associated with the sewer line, and the particulate removal system location also created an issue in removing snow and water run-off. This project was combined with Impact Aid.

Problem – The school district had the following deficiencies that required remedy by the proposed project:

- ☐ Sewer line breakage
- ☐ Interior walls, flooring, exterior doors & thresholds affected from sewage back up & heaving
- ☐ Drainage Problems
- ☐ Particulate System Placement
- ☐ Absence of a Lift Station

Proposed Solution – The proposed project:

- ☐ Repaired of the sewer line
- ☐ Installed a lift station
- ☐ Installed a concrete gutter drain
- ☐ Moved the particulate system for the shop
- ☐ Removed and replaced all affected interior walls, flooring, exterior doors, thresholds and concrete

Note: The proposed solution does not address the installation of updated lighting, occupancy sensors, and ADA upgrades that will be remedied by the district during this project. These issues are considered separate projects and were not considered for the Quality Schools grant.

**East Helena Elementary
Lewis and Clark County
Statutory Priority #4 (Energy Efficiency Improvements)
Quality Schools Project Grant
2011 Biennium**

This application received 433 points out of a possible 500 points and ranked 5 out of 129 applications. Commerce awarded a Quality Schools Project Grant to the East Helena Elementary District for the 2011 Biennium in the amount of \$397,892.

Project Funding

Funding Source	Type of Funds Being Used	Amount	Project %
Commerce	Quality Schools Project Grant	\$397,892	90%
East Helena Elementary	Building Reserve & General Fund	\$45,000	10%
Project Total		\$442,892	

Project Summary

History – The East Helena School District has a history of air quality issues associated with airborne pollutants (lead and arsenic) from the ASARCO lead smelter and continuing pollutant creation in the form of uncontrolled dust from the ASARCO cleanup. The air quality is exacerbated by winter inversions and summer forest fires. In December, January and the first week of February of this past year, East Helena experienced 35 'watch' or 'poor' air quality days out of a total 69 days. Students were at school for 20 of those days. The natural causes of poor air quality were compounded by the effects of heavy metals from the ASARCO Lead Smelter. In the 1990s, ASARCO used dust control equipment to reduce airborne contaminants. However, the airborne particles were not filtered adequately from the fresh air intake in the district's air handling system and created deposits in existing ducts. Northern Industrial Hygiene recently studied the levels of Particulates Not Otherwise Regulated (PNOR) at the Radley and Eastgate Schools and found levels inside the buildings in excess of the ambient outdoor air. This evidence pointed to a need to update indoor air handling equipment and filtration.

The district performed an energy audit in 2009, which pointed to components of the HVAC systems as areas of potential energy savings. The Radley School also received a 55% deficiency rating for ventilation on the 2008 Facilities Condition Inventory.

Problem – The school district had the following deficiencies that required remedy by the proposed project:

- ☐ Inefficient pneumatic controls on HVAC systems at all three facilities
- ☐ Lack of adequate filtration system for indoor air, resulting in higher particulate levels indoors than outdoors
- ☐ Built up particulate deposits in existing ducts

Proposed Solution – The proposed project:

- ☐ Provided Direct Digital Control (DDC) systems
- ☐ Added CO2 demand based ventilation control to reduce the element of outside air introduced, thus reducing particulate levels
- ☐ Installed new/retrofit high efficiency filtration with "secure and seal" engineered filter framing component
- ☐ Cleaned all existing ducts to remove retained heavy metals, dust, pollen, etc.

**Colstrip High School
Rosebud County
Statutory Priority #4 (Energy Efficiency Improvements)
Quality Schools Project Grant
2011 Biennium**

This application received 424 points out of a possible 500 points and ranked 6 out of 129 applications. Commerce awarded a Quality Schools Project Grant to Colstrip High School District for the 2011 Biennium in the amount of \$225,918.

Project Funding

Funding Source	Type of Funds Being Used	Amount	Project %
Commerce	Quality Schools Project Grant	\$225,918	69%
Colstrip High School	Building Reserve	\$100,000	31%
Project Total		\$325,918	

Project Summary

History – Colstrip High School was originally constructed 1983. The district has actively pursued energy savings upgrades in recent years by retrofitting lighting, adding occupancy sensors, and upgrading boilers at two facilities. Many of the existing pneumatic controls were out of calibration and minimum volume settings are higher than necessary. This led to unnecessarily high energy usage. New digital controls allowed accurate measurement of air volume and allowed the district to utilize night setback settings. These proposed improvements were based on an energy audit performed in 2009 through the Quick Start program.

Problem – The school district had the following deficiencies that required remedy by the proposed project:

- ☐ Inefficient pneumatic controls on HVAC fan system for classrooms
- ☐ Failed relief fan in swimming pool area causing moisture build-up
- ☐ Inefficient fan system serving gymnasium

Proposed Solution – The proposed project:

- ☐ Retrofitted 88 fan-powered VAV boxes serving classrooms to Direct Digital Controls (DDC)
- ☐ Converted VAV box pneumatic 3-way valves to electric 2-way valves for variable speed pumping
- ☐ Installed DDC and humidity controls and install new Variable Frequency Driver (VFD) in pool area
- ☐ Installed temperature and CO2 sensors for gym ventilation during large events
- ☐ Installed VFD on 30,000 CFM gym unit to reduce electrical consumption

**Helena Elementary
Lewis and Clark County
Statutory Priority #1 (Public Health and Safety)
Quality Schools Project Grant
2011 Biennium**

This application received 410 points out of a possible 500 points and ranked 7 out of 129 applications. Commerce awarded a Quality Schools Project Grant to Helena Elementary District for the 2011 Biennium in the amount of \$291,831.

Project Funding

Funding Source	Type of Funds Being Used	Amount	Project %
Commerce	Quality Schools Project Grant	\$291,831	38%
Helena Elementary	Building Reserve	\$53,427.46	7%
L & C County STAG	Grant	\$421,125	55%
Project Total		\$766,383.46	

Project Summary

History – Rossiter Elementary School's wastewater system consisted of an on-site septic tank, dosing tank, and pressurized drain field constructed in 1998 to replace the school's original septic system. The existing system was starting to fail, as sewage was observed surfacing in the late winter months for the last two years. The wastewater system's flow capacity also exceeded at least 16 times per year, which was causing issues. MDEQ issued a notice of Violation letter (3/09), as the system was in violation of ARM 17.38.101 and MCA75-6-112. The school submitted a compliance schedule to MDEQ (4/09), which was modified (7/09). The Montana Department of Environmental Quality issued an Administrative Order on Consent to the district (9/09) which was signed, as the school agreed to take corrective action by constructing a new wastewater system and conducting interim actions including monitoring water consumption daily, pumping approximately 2,500 gallons of waste from the septic tank on a weekly basis, monitoring the drain field for odors or visible effluent on the surface and construct a temporary fence around the drain field. If surfacing sewage was observed, the district will immediately pump the system and spread lime over the area.

Problem – The school district had the following deficiencies that required remedy by the proposed project:

- ☐ Wastewater system was exceeding flow capacity
- ☐ Wastewater system was failing

Proposed Solution – The proposed project:

- ☐ Replaced the wastewater treatment system for Rossiter Elementary School

**Lolo Elementary
Missoula County
Statutory Priority #1 (Public Health and Safety)
Quality Schools Project Grant
2011 Biennium**

This application received 405 points out of a possible 500 points and ranked 8 out of 129 applications. Commerce awarded a Quality Schools Project Grant to Lolo Elementary District for the 2011 Biennium in the amount of \$479,091.

Project Funding

Funding Source	Type of Funds Being Used	Amount	Project %
Commerce	Quality Schools Project Grant	\$479,091	95%
Lolo Elementary	Building Reserve	\$22,437	4%
NorthWestern Energy	Energy Rebates	\$1,500	<1%
Project Total		\$503,028	

Project Summary

History – The Lolo School District facilities were developed on a steep hillside, adjacent to what has become one of the busiest state highways in Montana. As a result, 444 (76%) of students arrived in vehicles each morning and were picked up at the end of the school day. Vehicles travelled up an access drive with a 15% slope to the upper campus.

Problem – The school district had the following deficiencies that required remedy by the proposed project:

- ☐ The steep slope and close proximity to the Highway 93 produced substantial conflicts between moving and parked vehicles, pedestrians and nearby highway traffic.

Proposed Solution – The proposed project would:

- ☐ Provided an access loop for pick up and drop off of students.

Powder River County High School
Powder River County
Statutory Priority #1 (Public Health and Safety)
Quality Schools Project Grant
2011 Biennium

This application received 398 points out of a possible 500 points and ranked 10 out of 129 applications. Commerce awarded a Quality Schools Project Grant to Powder River County High School District for the 2011 Biennium in the amount of \$141,634.

Project Funding

Funding Source	Type of Funds Being Used	Amount	Project %
Commerce	Quality Schools Project Grant	\$141,634	89%
Powder River County High School	Building Reserve	\$18,250	11%
Project Total		\$159,884	

Project Summary

History – Broadus Public Schools underwent asbestos abatement over a multi-year period since 1987. The facilities underwent a re-inspection of asbestos-containing building materials (ACBM) in December 2009 and developed a priority list for removal. During the study, inspectors found three areas (2,600 square feet) of material that was friable and damaged or significantly damaged that needed to be removed immediately. This material was found in the spray-applied acoustical ceiling finishes located in the building addition completed in 1971. At each of the areas, the ceiling cracked due to movement of the foundation/floor slab to produce a gap in ceiling finishes. An additional 15,500 square feet of acoustical ceiling and wall finish had a high potential for damage and was friable.

Problem – The school district had the following deficiencies that required remedy by the proposed project:

- ☐ 2,600 square feet of damaged friable ACBM
- ☐ Additional 15,500 square feet of friable ACBM with a high potential for damage

Proposed Solution – The proposed project:

- ☐ Hired an accredited asbestos abatement contractor to remove all friable ACBM associated with the acoustical ceiling and wall finishes
- ☐ Installed new ceiling and wall finishes

**Montana City Elementary
Jefferson County
Statutory Priority #4 (Energy Efficiency Improvements)
Quality Schools Project Grant
2011 Biennium**

This application received 398 points out of a possible 500 points and ranked 9 out of 129 applications. Commerce awarded a Quality Schools Project Grant to Montana City Elementary District for the 2011 Biennium in the amount of \$161,820.

Project Funding

Funding Source	Type of Funds Being Used	Amount	Project %
Commerce	Quality Schools Project Grant	\$161,820	56%
Montana City Elementary	Performance Contract	\$9,000	3%
Montana City Elementary	General Fund	\$119,066	41%
Project Total		\$289,886	

Project Summary

History – Montana City School was originally built in 1916. The multipurpose room addition was completed in 1949, and the upper elementary facility was added in 1980. Another elementary addition was attached in 1989, and most recently the Junior High and Gymnasium was finished in 2006. The building had been heated by standard efficiency natural gas forced air furnaces as well as staged boilers. The mechanical controls that served the building were a combination of programmable thermostats, pneumatic thermostats, digital control thermostats and many other combinations of these devices.

Problem – The school district had the following deficiencies that required remedy by the proposed project:

- ☐ The HVAC system provided little to no outside air and no building exhaust.
- ☐ The boiler and back up units were beyond their life expectancy and parts were no longer available.
- ☐ Antiquated controls did not properly control the amount of exhaust and outside air.

Proposed Solution – The proposed project:

- ☐ Allowed the School to properly control the amount of exhaust and outside air for the entire building.

**Poplar Elementary
Roosevelt County
Statutory Priority #1 (Public Health and Safety)
Quality Schools Project Grant
2011 Biennium**

This application received 391 points out of a possible 500 points and ranked 11 out of 129 applications. **Commerce awarded a Quality Schools Project Grant to Poplar Elementary District for the 2011 Biennium in the amount of \$78,438.**

Project Funding

Funding Source	Type of Funds Being Used	Amount	Project %
Commerce	Quality Schools Project Grant	\$78,438	80%
Poplar Elementary	Impact Aid	\$20,000	20%
Project Total		\$98,438	

Project Summary

History – The original sewer line was installed in the 1950's. Multiple expansions were added in the 1970's & 1980's. Eight years ago, there was a major sewer spillage in the elementary crawl space tunnels due to failed piping. This resulted in repairs and environmental remediation of the contaminated soil in the crawl space. These repairs replaced only a small portion of the failing sewer piping network. A large evacuation fan has been operating continuously to keep leaking sewer gases from reaching the students.

Problem – The school district had the following deficiencies that required remedy by the proposed project:

- ❑ The existing sewer system failed in several different locations. The existing fixture connections to the main sewer line have been failing at a rapid pace and have been extremely difficult to repair due to the brittleness of the aged cast iron pipe. The existing sewage piping was in such poor condition that it no longer safely transported the raw sewage away from the building. The complete replacement of both the sub grade piping and crawlspace piping in the facility was proposed.

Proposed Solution – The proposed project:

- ❑ Included the complete replacement of the failing sub grade sewer lines that served Poplar Elementary School. There were sections of the waste line system that dated back to the original construction of the elementary school (mid 1950's). There were several reasons why this project was considered for the obtainment of funding through the quality schools program. The failing sewer system was a direct threat to the life safety of the building occupants. The aged, faulty pipe work was constantly emitting methane gases into the occupied spaces. The off gassing became so problematic that an exhaust fan was installed into the crawl space to keep the sewer functional until it could be replaced. There were several violations ranging from non compliant hub connectors, insufficient pipe slope, and the use of galvanized pipe sub grade. The crawl space ventilation fan, which operated continuously, wasted electricity and allowed cold air to be drawn into the non-insulated crawl space. The proposed sewer replacement project reduced maintenance costs associated with continual and frequent repairs. It eliminated health concerns because of frequent sewer blockage and backups. The sewer piping was noted as issue in the 2008 FCI report.

**Frenchtown K-12 Schools
Missoula County
Statutory Priority #4 (Energy Efficiency Improvements)
Quality Schools Project Grant
2011 Biennium**

This application received 384 points out of a possible 500 points and ranked 12 out of 129 applications. Commerce awarded a Quality Schools Project Grant to Frenchtown K-12 School District for the 2011 Biennium in the amount of \$68,622.

Project Funding

Funding Source	Type of Funds Being Used	Amount	Project %
Commerce	Quality Schools Project Grant	\$68,622	95%
Frenchtown K-12 School District	Deferred Maintenance	\$3,262	5%
Project Total		\$71,884	

Project Summary

History – The Frenchtown School District recently completed a major expansion and remodeling project on the North campus that included the relocation of the Junior High School to a new facility attached to the High School, as well as significant mechanical and electrical upgrades. The HVAC system in the existing buildings was in need of retro-commissioning to ensure building systems were operating as designed.

Problem – The school district had the following deficiencies that required remedy by the proposed project:

- ☐ Potential loss of energy efficiency due to problems that developed through the course of the buildings life.
- ☐ Potential loss of energy efficiency due to heat lost in non-insulated steam condensate return pipes.

Proposed Solution – The proposed project:

- ☐ Retro-commissioned the existing buildings on the Frenchtown campus.
- ☐ Insulated steam condensate return pipes.

**Red Lodge High School
Carbon County
Statutory Priority #3 (Accreditation Standards)
Quality Schools Project Grant
2011 Biennium**

This application received 378 points out of a possible 500 points and ranked 13 out of 129 applications. **Commerce awarded a Quality Schools Project Grant to Red Lodge High School District for the 2011 Biennium in the amount of \$1,000,000.**

Project Funding

Funding Source	Type of Funds Being Used	Amount	Project %
Commerce	Quality Schools Project Grant	\$1,000,000	42%
Red Lodge Public Schools Foundation	Private Philanthropy	\$450,000	21%
Red Lodge High School District	Various Funds	\$612,069	29%
Private Donations	Matching Funds	\$50,000	8%
Project Total		\$2,112,069	

Project Summary

History – Red Lodge Public Schools began long-term facilities planning in 2000. A diverse committee created a plan of action based on a comprehensive facilities survey. The plan focused on the many needs of Roosevelt Middle School, which suffered from inadequate heating, electrical, and virtually no ADA access. Cost estimates were obtained, and the cost of renovating the existing facility was higher than the cost of constructing a new school. The district has been historically comprised of three schools: Mountain View Elementary, Roosevelt Middle School, and Red Lodge High School. Mountain View shared a building complex built in the 1960s with the high school. Roosevelt was housed in the original Carbon County High School facility built in 1919. Land was donated by the City of Red Lodge for the construction of a new middle school facility, but it was across town, miles away from the current campus. The school board voted to construct a new high school across town, renovate the existing high school and move the middle school students into it. This created one K-8 facility and a new high school across town. Due to an unexpected rise in construction costs, the new high school was finished in 2009 without a physical education facility. Students still used the old Roosevelt school gym, although the rest of the building was abandoned. High school students were bused across town, losing up to 60 hours of physical education instruction per year.

Problem – The school district had the following deficiencies that required remedy by the proposed project:

- ☐ Unfinished shell of a Physical Education facility

Proposed Solution – The proposed project:

- ☐ Completed interior construction of the new Red Lodge High School physical education facility.

Amsterdam Elementary
Gallatin County
Statutory Priority #1 (Public Health and Safety)
Quality Schools Project Grant
2011 Biennium

This application received 377 points out of a possible 500 points and ranked 14 out of 129 applications. Commerce awarded a Quality Schools Project Grant to Amsterdam Elementary District for the 2011 Biennium in the amount of \$36,500.

Project Funding

Funding Source	Type of Funds Being Used	Amount	Project %
Commerce	Quality Schools Project Grant	\$36,500	78%
Amsterdam Elementary School District	Deferred Maintenance	\$10,500	22%
Project Total		\$47,000	

Project Summary

History – In January 2009, Amsterdam School was informed that the state maximum level for arsenic in drinking water had been tightened and lowered from 50 parts per billion (ppb) to 10 ppb. Tests on the well at the time and subsequent tests measured in the 13 to 18 ppb range. The school received notice from the Department of Environmental Quality (DEQ) that they were out of compliance and needed to remedy the problem. The school complied with mandatory notices to inform the public and the school board began putting together a plan of action. Due to the location of the school infrastructure and boundaries, it was necessary to negotiate an easement with the adjacent landowner to drill a new drinking well on her property. This well was completed and tested in the fall of 2009. Initial tests yielded arsenic levels averaging 9 ppb. After the well was finished, tests came back at 10 ppb, which was not in compliance. It was therefore evident to the school board that the new well would not produce water that was consistently in compliance with standards. The next option for the district was to install a costly arsenic treatment system to ensure safe drinking water for the school. If the school continued to be out of compliance with DEQ standards, it could have been shut down.

Problem – The school district had the following deficiencies that required remedy by the proposed project:

- ☐ Well water tested out of compliance with state arsenic standards for drinking water

Proposed Solution – The proposed project:

- ☐ Installed a well-water arsenic treatment system

Note: The arsenic treatment system had associated ongoing maintenance costs that were not covered by this grant. Test results from the new well at the Amsterdam School have been below the level of current standards. However, compliance has been based on the average of three test results and the board worries that levels could go up again, at which point a solution would be required immediately.

**Eureka Elementary
Lincoln County
Statutory Priority #4 (Energy Efficiency Improvements)
Quality Schools Project Grant
2011 Biennium**

This application received 379 points out of a possible 500 points and ranked 15 out of 129 applications. Commerce awarded a Quality Schools Project Grant to Eureka Elementary District for the 2011 Biennium in the amount of \$355,631.

Project Funding

Funding Source	Type of Funds Being Used	Amount	Project %
Commerce	Quality Schools Project Grant	\$355,631	100%
Project Total		\$355,631	

Project Summary

History – Eureka Elementary and Junior High Schools relied on the same classroom heaters for the past 50 to 60 years. The system was not thermostatically controlled, nor did it allow for any fresh air induction into the building. The heaters were unreliable and at risk for failure. In 2009, CTA performed an investment grade audit that found these heaters to be deficient.

Problem – The school district had the following deficiencies that required remedy by the proposed project:

- ☐ The elementary and junior high schools were using antiquated heaters that were not controlled by a thermostat.
- ☐ Heaters did not allow for any outside air to be introduced into the building.

Proposed Solution – The proposed project:

- ☐ Replaced 30 unit ventilators and 8 cabinet heaters with new thermostatically controlled units.

Hellgate Elementary
Missoula County
Statutory Priority #4 (Energy Efficiency Improvements)
Quality Schools Project Grant
2011 Biennium

This application received 365 points out of a possible 500 points and ranked 16 out of 129 applications. Commerce awarded a Quality Schools Project Grant to Hellgate Elementary District for the 2011 Biennium in the amount of \$131,780.

Project Funding

Funding Source	Type of Funds Being Used	Amount	Project %
Commerce	Quality Schools Project Grant	\$131,780	98%
Hellgate Elementary	General Fund	\$3,160	2%
Project Total		\$134,940	

Project Summary

History – Hellgate Elementary School conducted an energy audit in the fall of 2009. Windows were identified as an Energy Conservation Measure that presented an estimated energy savings opportunity of up to 17%. The Facilities Condition Inventory conducted in 2008 also rated these windows at 50% deficient.

Problem – The school district had the following deficiencies that required remedy by the proposed project:

- ☐ Windows at Hellgate Elementary were of old, single pane design.

Proposed Solution – The proposed project:

- ☐ Replaced single pane windows with new, insulated windows.

Columbia Falls High School
Flathead County
Statutory Priority #1 (Public Health and Safety)
Quality Schools Project Grant
2011 Biennium

This application received 363 points out of a possible 500 points and ranked 18 out of 129 applications. **Commerce** awarded a **Quality Schools Project Grant** to **Columbia Falls High School District** for the **2011 Biennium** in the amount of **\$179,084**.

Project Funding

Funding Source	Type of Funds Being Used	Amount	Project %
Commerce	Quality Schools Project Grant	\$179,084.00	100%
Project Total		\$179,084.00	

Project Summary

History – The original Columbia Falls High School was built in 1958. Some modifications were made throughout the years, but in general, the building had not been changed from the original design. In 1990, there was a major fire at the high school that might have been minimized by a modern fire alarm system. There were only minor modifications made to the system after the fire. An addition containing seven classrooms, a weight room, and a locker room was added in 1992. A shop was added in 1999 for the industrial arts program. No fire alarm was installed in this addition.

Problem – The school district had the following deficiencies that required remedy by the proposed project:

- ☐ The fire alarm at Columbia Falls High School was obsolete, and parts for repair were not available.
- ☐ Several classrooms in Columbia Falls High School lacked fire alarm protection all together.

Proposed Solution – The proposed project:

- ☐ Installed a new addressable fire alarm system in all buildings of Columbia Falls High School.

**Butte High School
Butte-Silver Bow County
Statutory Priority #4 (Energy Efficiency Improvements)
Quality Schools Project Grant
2011 Biennium**

This application received 363 points out of a possible 500 points and ranked 17 out of 129 applications. Commerce awarded a **Quality Schools Project Grant to the Butte High School District for the 2011 Biennium in the amount of \$506,416.**

Project Funding

Funding Source	Type of Funds Being Used	Amount	Project %
Commerce	Quality Schools Project Grant	\$506,416.00	42%
Butte High School	General Funds	\$700,000.00	58%
Project Total		\$1,206,416.00	

Project Summary

History – The boiler in the Butte High School Annex was beyond its useful life expectancy and had no back up unit. The HVAC system provided little to no outside air and no functioning building exhaust. The building also had antiquated controls that did not allow for proper operation of building ventilation or exhaust.

Problem – The school district had the following deficiencies that required remedy by the proposed project:

- ☐ Boiler was beyond its life expectancy.
- ☐ HVAC system provided little to no outside air or exhaust.
- ☐ Controls were antiquated and didn't properly control outside air and exhaust.

Proposed Solution – The proposed project:

- ☐ Installed a new boiler.
- ☐ Installed a new HVAC system.
- ☐ Installed a new Digital Controls.

**Miles City Elementary
Custer County
Statutory Priority #4 (Energy Efficiency Improvements)
Quality Schools Project Grant
2011 Biennium**

This application received 360 points out of a possible 500 points and ranked 19 out of 129 applications. **Commerce awarded a Quality Schools Project Grant to the Miles City Elementary District for the 2011 Biennium in the amount of \$265,782.**

Project Funding

Funding Source	Type of Funds Being Used	Amount	Project %
Commerce	Quality Schools Project Grant	\$265,782	82%
Commerce	Deferred Maintenance Grant	\$41,394	13%
Miles City Elementary	FLEX Fund	\$12,218	5%
Project Total		\$319,394	

Project Summary

History – The Garfield Elementary School was constructed in 1979 and operated with the original HVAC system. The boiler was originally operating at 80% efficiency, but due to many years of wear the efficiency was estimated to operate much lower. It offered zero redundancy and the school would have been without heat in the event of a failure. Additionally, the aging boiler did not have an emergency shutdown switch. Existing pneumatic controls no longer functioned to allow for night setback or other energy saving measures. Temperature control was poor and areas of plumbing froze several times during the colder months. Controls were out of calibration and caused temperature fluctuations. For this reason, some rooms were heated using additional electric heaters which posed a fire risk – as was cited by the local Fire Marshal. The district performed an energy audit in 2009, which indicated potential savings related to replacement of the boiler and controls.

Problem – The school district had the following deficiencies that required remedy by the proposed project:

- ☐ Original, inefficient boiler that was well past its useful life and offered zero redundancy
- ☐ Inefficient pneumatic controls with nonfunctional night setback and energy saving measures
- ☐ VAV controls that were pressure dependent and did not provide for proper ventilation

Proposed Solution – The proposed project:

- ☐ Installed a direct digital temperature controls to manage air handlers and terminal variable volume units
- ☐ Installed pressure independent controllers to meet ventilation requirements in classrooms
- ☐ Installed two boilers that operate at more than 90% efficiency.

Augusta Public Schools
Lewis and Clark County
Statutory Priority #4 (Energy Efficiency Improvements)
Quality Schools Project Grant
2011 Biennium

This application received 355 points out of a possible 500 points and ranked 20 out of 129 applications. Commerce awarded a Quality Schools Project Grant to the Augusta Elementary and High School Districts for the 2011 Biennium in the amount of \$93,500.

Project Funding

Funding Source	Type of Funds Being Used	Amount	Project %
Commerce	Quality Schools Project Grant	\$93,500.00	94%
Augusta Public Schools	Undecided	\$5,900.00	6%
Project Total		\$99,400.00	

Project Summary

History – The Augusta Elementary School was built in 1950. The building has been attached to the High School, which was built in 1920, by a walk-through hallway, gymnasium and office structure. The building suffered through years of low budgets, partial remodels, Montana winters, and age itself. The east side of the building was primarily windows. They were the original, single-pane, wooden sash windows. Many of them were covered by plastic to prevent leaks, or tin foil to slow heat loss.

Problem – The school district had the following deficiencies that required remedy by the proposed project:

- ☐ Old single paned windows

Proposed Solution – The proposed project:

- ☐ Replaced single pane windows with new dual pane windows.

Denton Public Schools
Fergus County
Statutory Priority #1 (Public Health and Safety)
Quality Schools Project Grant
2011 Biennium

This application received 351 points out of a possible 500 points and ranked 21 out of 129 applications. **Commerce** awarded a **Quality Schools Project Grant** to **Denton Elementary and High School Districts** for the **2011 Biennium** in the amount of **\$71,519**.

Project Funding

Funding Source	Type of Funds Being Used	Amount	Project %
Commerce	Quality Schools Project Grant	\$71,519	100%
Project Total		\$71,519	

Project Summary

History – The original Denton School was built in 1930 with updates in the 50's and 60's. It was determined that asbestos was present in some of the exposed surfacing material, thermal system insulation and other miscellaneous materials present at the school. A 2009 Re-inspection report found areas with friable ACBM that were disturbed.

Problem – The school district had the following deficiencies that required remedy by the proposed project:

- ☐ Exposed Friable ACBM

Proposed Solution – The proposed project:

- ☐ Installed Vinyl Composite tile, and performed asbestos abatement.

**Winifred K-12 Schools
Fergus County
Statutory Priority #1 (Public Health and Safety)
Quality Schools Project Grant
2011 Biennium**

This application received 350 points out of a possible 500 points and ranked 22 out of 129 applications. **Commerce awarded a Quality Schools Project Grant to the Winifred K-12 School District for the 2011 Biennium in the amount of \$100,000.**

Project Funding

Funding Source	Type of Funds Being Used	Amount	Project %
Commerce	Quality Schools Project Grant	\$100,000	61%
Commerce	Deferred Maintenance Grant	\$15,000	9%
Winifred K-12 Schools	Building Reserve Fund	\$25,000	15%
Private Source	Donation	\$25,000	15%
Project Total		\$165,000	

Project Summary

History – The Winifred School's physical education facility was built in 1964. The facility has had a flat roof which was covered with rubberized asphalt. Over time, the tough weather conditions and drainage system deteriorated the condition of the asphalt and as a result, formed separated seams, cracks, and holes. This caused leakage into the facility that was destructive to the ceiling and floor and also dangerous in terms of mold causing mildew spores.

Problem – The school district had the following deficiencies that required remedy by the proposed project:

- ☐ Deteriorating Flat Roof on Physical Education Facility

Proposed Solution – The proposed project:

- ☐ Replaced the flat roof with a low-sloping roofing scheme, utilizing a tapered rigid insulation system to provide insulation and slope for drainage.

**Hobson K-12 Schools
Judith Basin County
Statutory Priority #4 (Energy Efficiency Improvements)
Quality Schools Project Grant
2011 Biennium**

This application received 345 points out of a possible 500 points and ranked 23 out of 129 applications. **Commerce awarded a Quality Schools Project Grant to the Hobson K-12 School District for the 2011 Biennium in the amount of \$200,660.**

Project Funding

Funding Source	Type of Funds Being Used	Amount	Project %
Commerce	Quality Schools Project Grant	\$200,660	82%
Commerce	Deferred Maintenance Grant	\$24,500	10%
Hobson K-12 Schools	Flex Fund	\$20,500	8%
Project Total		\$245,660	

Project Summary

History – The present Hobson school facility was built in 1967, at which time the boiler was installed. The boiler was inspected in 11/06 by Traveler's Insurance Company, and was found to have severe damage and corrosion, particularly in the bottom corners and the mud leg floor. Correction was performed, but the boiler was again in need of service in 2008 due to a bad motor. The approximate yearly upkeep on the present boiler system had been 3-4k per year.

Problem – The school district had the following deficiencies that required remedy by the proposed project:

- ☐ Failing Boiler System with related asbestos abatement

Proposed Solution – The proposed project:

- ☐ Replaced the existing boiler system with two steam boilers, two oil burners, installed one duplex boiler feed pump and one oil delivery pump and removed asbestos.

**Kinsey Elementary
Custer County
Statutory Priority #4 (Energy Efficiency Improvements)
Quality Schools Project Grant
2011 Biennium**

This application received 345 points out of a possible 500 points and ranked 24 out of 129 applications. **Commerce awarded a Quality Schools Project Grant to the Kinsey Elementary School District for the 2011 Biennium in the amount of \$430,062.**

Project Funding

Funding Source	Type of Funds Being Used	Amount	Project %
Commerce	Quality Schools Project Grant	\$430,062	98%
Commerce	Deferred Maintenance Grant	\$7,242	2%
Project Total		\$437,304	

Project Summary

History – Kinsey School facilities were constructed in the late 1950s and early 1960s. The facility had the original hanging and wall heater units, as well as the disabled original coal fired heater. The heating units were outdated and leaked propane into the school facility. Some units were disabled due to the risk of fire or explosion and Kinsey School had been evacuated due to a propane leak from one of these units. This heating system needed to be replaced, especially as repairs could no longer be made to existing units due to the fire risk. A new ventilation system was added to the renovated accessible rest rooms, but the rest of the facility had no ventilation system in place.

Problem – The school district had the following deficiencies that required remedy by the proposed project:

- ☐ Original outdated and inefficient heating system with units that leaked propane into school
- ☐ No cooling system
- ☐ No ventilation system in most of the facility
- ☐ Inefficient lighting that was affected by HVAC system upgrades

Proposed Solution – The proposed project:

- ☐ Removed the existing heating units and cap gas lines
- ☐ Installed ground source heat pump system
- ☐ Installed ductwork and controls for HVAC
- ☐ Replaced affected ceiling and lighting

**Havre Elementary
Hill County
Statutory Priority #6 (Enhanced Educational Opportunities)
Quality Schools Project Grant
2011 Biennium**

This application received 345 points out of a possible 500 points and ranked 25 out of 129 applications. **Commerce** awarded a **Quality Schools Project Grant** to the **Havre Elementary District** for the **2011 Biennium** in the amount of **\$881,875**.

Project Funding

Funding Source	Type of Funds Being Used	Amount	Project %
Commerce	Quality Schools Project Grant	\$881,875	50%
Havre Elementary School District	Flex Funds	\$260,737	15%
Havre Elementary School District	IDEAB-ARRA	\$250,000	14%
Havre Elementary School District	General Funds	\$275,500	16%
Havre Elementary School District	Title I ARRA	100,000	5%
Project Total		\$1,768,112	

Project Summary

History – The Highland Park North – Devlin School was built in 1953. The school was closed after the 2000-2001 school year when the Havre Public Schools switched to grade level schools, at which time the district partnered with the Boys & Girls Club for their use of the building. In 2007-08, Havre Public Schools went to a full-time Kindergarten, which created the need for more classrooms. To accommodate this need, the district resumed the use of the Highland Park North – Devlin facility by reclaiming four classrooms and a lunch-serving area from the Boys & Girls Club. The arrangement was unsatisfactory, as all Havre Public K-1 students were not housed on the same campus, and did not have equal access to the full library, counseling, nursing, and supervision services.

Problem – The school district had the following deficiencies that required remedy by the proposed project

- ☐ Inadequate Classroom Space for K-1 students

Proposed Solution – The proposed project:

- ☐ Provided the addition of five regular education classrooms, a special education classroom including a fully equipped bathroom, six office areas for special programs, and two student bathrooms.

Note: The proposed solution did not address the needed addition of a lunchroom and food storage space, which will be addressed in the next phase of improvements. Therefore, those deficiencies were not taken into consideration in the scoring of this application.

**Helena Flats Elementary
Flathead County
Statutory Priority #1 (Public Health and Safety)
Quality Schools Project Grant
2011 Biennium**

This application received 343 points out of a possible 500 points and ranked 26 out of 129 applications. Commerce awarded a Quality Schools Project Grant to the Helena Flats Elementary District for the 2011 Biennium in the amount of \$172,204.

Project Funding

Funding Source	Type of Funds Being Used	Amount	Project %
Commerce	Quality Schools Project Grant	\$172,204	64%
Helena Flats Elementary	General Fund	\$98,041	36%
Project Total		\$270,245	

Project Summary

History – The Helena Flats gymnasium was built approximately 30 years ago. After an inspection in the fall of 2009 it was determined that the building's roof was failing. There was serious concern as to whether or not the roof could handle the weight from the snow load during the winter of 2010. Helena Flats applied for and received an emergency Grant from the Department of Commerce to temporarily shore the beams of the failing roof.

Problem – The school district had the following deficiencies that required remedy by the proposed project:

- ☐ The gymnasium's roof was at risk for catastrophic failure.

Proposed Solution – The proposed project:

- ☐ Retro-fitted the four laminate beams that support the gymnasium roof.

**Hamilton K-12 Schools
Ravalli County
Statutory Priority #1 (Public Health and Safety)
Quality Schools Project Grant
2011 Biennium**

This application received 336 points out of a possible 500 points and ranked 27 out of 129 applications. Commerce awarded a Quality Schools Project Grant to the Hamilton K-12 School District for the 2011 Biennium in the amount of \$80,179.

Project Funding

Funding Source	Type of Funds Being Used	Amount	Project %
Commerce	Quality Schools Project Grant	\$80,179	100%
Project Total		\$80,179	

Project Summary

History – The Daly School in Hamilton had an asbestos report done in 2003 by Maxim Technologies which identified friable asbestos in the 2 foot by 4 foot ceiling panels of the school. The report determined that maintenance activities, including the removal of the lay in panels, should be performed by trained personnel.

Problem – The school district had the following deficiencies that required remedy by the proposed project:

- ☐ The ceiling panels in the Daly School contained friable asbestos.

Proposed Solution – The proposed project:

- ☐ Removed and replaced the asbestos-containing ceiling panels.

Shelby High School
Toole County
Statutory Priority #4 (Energy Efficiency Improvements)
Quality Schools Project Grant
2011 Biennium

This application received 333 points out of a possible 500 points and ranked 28 out of 129 applications. **Commerce** awarded a **Quality Schools Project Grant** to the **Shelby High School District** for the **2011 Biennium** in the amount of **\$170,798**.

Project Funding

Funding Source	Type of Funds Being Used	Amount	Project %
Commerce	Quality Schools Project Grant	\$170,798	100%
Project Total		\$170,798	

Project Summary

History –The Shelby High School facility was built in the 1970's. A new boiler was installed in 2008, but it did not mate well with the old control system and operated inefficiently, which wasted the district's resources.

Problem – The school district had the following deficiencies that required remedy by the proposed project:

- ☐ The recently installed boiler did not engage with the old controls system

Proposed Solution – The proposed project:

- ☐ Upgraded the DDC Controls with Front End
- ☐ Retro-Commissioned the system

**Bozeman Elementary
Gallatin County
Statutory Priority #4 (Energy Efficiency Improvements)
Quality Schools Project Grant
2011 Biennium**

This application received 332 points out of a possible 500 points and ranked 29 out of 129 applications. Commerce awarded a Quality Schools Project Grant to the Bozeman Elementary School District for the 2011 Biennium in the amount of \$705,000.

Project Funding

Funding Source	Type of Funds Being Used	Amount	Project %
Commerce	Quality Schools Project Grant	\$ 705,000	27%
Bozeman Elementary	District Funds	\$2,170,000	73%
Project Total		\$2,875,000	

Project Summary

History – Hawthorne Elementary School was constructed in 1929 and the district was in the design and drawing phase of a project to replace the mechanical and electrical systems for the building. This large project included the installation of a variable refrigerant volume (VRV) system for distribution and ventilation, replacement of the main electrical service and distribution, installation of a new fire alarm system, and a lighting upgrade. If adequate funds were available, the existing single-pane windows will be replaced with more efficient double-pane alternatives. Since the 1990s, the district developed Long Range Facilities Master Plans and annual Capital Project Plans. In 2007, the district replaced the main boiler with one that was used in another facility. The 2008 School Facilities Assessment indicated deficiencies with the HVAC and Electrical Systems. The district conducted an energy audit in 2009, which indicated that replacing the mechanical system and controls would save \$13,804 per year in energy costs.

Problem – The school district had the following deficiencies that required remedy by the proposed project:

- ☐ Inefficient boiler and steam piping system
- ☐ Aging ventilation system
- ☐ Pneumatic thermostats that were out of calibration

Proposed Solution – The proposed project:

- ☐ Removed and replaced the old boiler and related equipment
- ☐ Removed old piping system, including related asbestos abatement
- ☐ Replaced the unit ventilator system with a variable refrigerant volume (VRV) system
- ☐ Installed a new DDC controls that allow for night set-back
- ☐ Commissioned a plan to verify proper operation of the control system, heating plant and HVAC equipment

**Stevensville Public Schools
Ravalli County
Statutory Priority #6 (Enhanced Educational Opportunities)
Quality Schools Project Grant
2011 Biennium**

This application received 330 points out of a possible 500 points and ranked 30 out of 129 applications. **Commerce** awarded a **Quality Schools Project Grant** to the **Stevensville Elementary and High School Districts** for the **2011 Biennium** in the amount of **\$828,074**.

Project Funding

Funding Source	Type of Funds Being Used	Amount	Project %
Commerce	Quality Schools Project Grant	\$828,074	48%
Stevensville Public Schools	Construction Bond	\$891,926	52%
Project Total		\$1,720,000	

Project Summary

History – The Stevensville shared Elementary and High School Music center was built in 1901. The two-story facility has lacked adequate emergency exiting from the upper level. The facility was deemed structurally unsound and unsuitable for structural remediation by a structural engineer. The brick veneer was not adequately connected to the support walls, which could have resulted in veneer collapse. The roof structure was modified throughout the years in ways which have compromised structural integrity, resulting in sagging roof support members.

Problem – The school district had the following deficiencies that required remedy by the proposed project:

- ☐ Structurally unsound music center that lacked adequate emergency exits.

Proposed Solution – The proposed project:

- ☐ Built a 5,400 square foot facility to house band and choir.

**Big Timber Elementary
Sweet Grass County
Statutory Priority #4 (Energy Efficiency Improvements)
Quality Schools Project Grant
2011 Biennium**

This application received 330 points out of a possible 500 points and ranked 31 out of 129 applications. Commerce awarded a Quality Schools Project Grant to the Big Timber Elementary District for the 2011 Biennium in the amount of \$300,863.

Project Funding

Funding Source	Type of Funds Being Used	Amount	Project %
Commerce	Quality Schools Project Grant	\$300,863	84%
Big Timber Elementary School District	Building Reserve	\$ 24,237	7%
Commerce	Deferred Maintenance Grant	\$ 30,000	8%
NCAT	Grant	\$ 3,900	1%
Project Total		\$359,000	

Project Summary

History – The Big Timber Grade School maintained its heating system for many years to maximize the functionality of the equipment. The facility underwent several additions since its construction in 1953. As the building expanded, the heating system expanded, which resulted in a pieced-together system that has heated the entire facility, but has operated inefficiently. In 2007, the district conducted a facilities assessment, which determined that the replacement of the existing heating system and related infrastructure was a high priority. The 2008, School Facilities Assessment included similar recommendations. In 2009, an energy audit determined that the replacement of the heating system would result in significant energy savings – just under \$11,000 per year based on the current cost of natural gas.

Problem – The school district had the following deficiencies that required remedy by the proposed project:

- ☐ Boiler that exceeded its life-expectancy
- ☐ Inefficiencies in the current heating control, piping and distribution system
- ☐ Asbestos insulation on piping

Proposed Solution – The proposed project:

- ☐ Removed and replaced old boiler and related equipment
- ☐ Removed and replaced old piping system including related asbestos abatement
- ☐ Installed new terminal units and control systems in classrooms
- ☐ Installed a new fan coil unit in gymnasium

**Monforton Elementary
Gallatin County
Statutory Priority #1 (Public Health and Safety)
Quality Schools Project Grant
2011 Biennium**

This application received 330 points out of a possible 500 points and ranked 32 out of 129 applications. Commerce awarded a Quality Schools Project Grant to the Monforton Elementary District for the 2011 Biennium in the amount of \$315,480.

Project Funding

Funding Source	Type of Funds Being Used	Amount	Project %
Commerce	Quality Schools Project Grant	\$315,480	87%
Monforton Elementary School District	Building Reserve	\$47,000	13%
Project Total		\$362,480	

Project Summary

History – The Monforton Elementary School utilized a nearly 20-year-old fire alarm system. The panel was no longer manufactured and replacement parts were getting increasingly difficult to find. The system lacked strobes in classrooms and in bathrooms. The district lacked a fire sprinkler system that was required by current building code for all wood frame construction and areas more than 20,000 square feet. Due to wood framing, a fire in the attic could advance quickly causing collapse of the roof. Monforton was in the process of master planning for, and design of, a major remodel and addition to district facilities, it made sense to replace the fire alarm system and install sprinklers at that time.

Problem – The school district had the following deficiencies that required remedy by the proposed project:

- ☐ Old fire alarm system that was difficult to repair and lacked strobes in areas of the school
- ☐ Lack of fire sprinkler system necessary for safety in wood frame construction

Proposed Solution – The proposed project:

- ☐ Replaced fire alarm system with an upgraded system tied in with sprinklers
- ☐ Installed fire sprinklers throughout school and attic space

Winnett K-12 Schools
Petroleum County
Statutory Priority #6 (Enhanced Educational Opportunities)
Quality Schools Project Grant
2011 Biennium

This application received 329 points out of a possible 500 points and ranked 33 out of 129 applications. Commerce awarded a Quality Schools Project Grant to the Winnett K-12 School District for the 2011 Biennium in the amount of \$251,343.

Project Funding

Funding Source	Type of Funds Being Used	Amount	Project %
Commerce	Quality Schools Project Grant	\$251,343	99%
Winnett K-12 Schools	District Funds	\$2,000	<1%
Partners in Education	Donation	\$500	<1%
Project Total		\$253,843	

Project Summary

History – The current shop facility for Winnett School District was built in 1975. The facility is 40' by 40', and was used by 57 students per day. The current facility was not only deficient regarding space regulations, but also had safety concerns including electrical and fire hazards created by the close proximity of the different fabrications. The facility also had no ventilation for exhaust fumes created when students worked with engine equipment.

Problem – The school district had the following deficiencies that required remedy by the proposed project:

- ☐ The current shop facility was not ventilated, and created safety and space concerns including fire and electrical hazards.

Proposed Solution – The proposed project:

- ☐ Constructed a new stand-alone shop facility that tied into the existing boiler system and addressed space and safety concerns

Note: The proposed solution did not address the proposed addition of state of the art welding facility equipment, which will be addressed in the next phase of improvements. Therefore, those deficiencies were not taken into consideration in the scoring of this application.

APPENDICES

APPENDIX A

Quality Schools Project Grant Applicants for the 2011 Biennium

Applicant	County	Project Description
Amsterdam Elementary	Gallatin	Install a well water arsenic treatment system
Arlee Elementary	Lake	New elementary school
Augusta Public Schools	Lewis & Clark	Double pane windows, lighting retrofit, walk-in freezer, LCD monitors
Belgrade High School	Gallatin	Insulation and heating controls
Belt Elementary	Cascade	Wall and roof insulation, garage door
Big Sandy Public Schools	Chouteau	Energy efficiency upgrades
Big Timber Elementary	Sweet Grass	New boiler, piping system, and new terminal units in each classroom
Bigfork Elementary	Flathead	Replacement of obsolete heaters
Billings Elementary	Yellowstone	Window replacement for Poly Elementary
Billings Elementary	Yellowstone	Temperature control retrofit for 6 schools
Billings Elementary	Yellowstone	Roof for Castle Rock Middle School
Billings Elementary	Yellowstone	Arrowhead light replacement
Billings High School	Yellowstone	Windows for Senior High
Box Elder Elementary	Hill	Four classroom addition
Bozeman Elementary	Gallatin	Mechanical and electrical systems at Hawthorne Elementary
Brockton High School	Roosevelt	Replace water line
Browning High School	Glacier	Complete Browning HS physical education complex
Butte Public Schools	Butte-Silver Bow	HVAC, boiler, controls, accessibility requirements, ADA
Cascade Public Schools	Cascade	Replace sewer lines that are backing up
Centerville Elementary	Cascade	Boiler replacement
Choteau Public Schools	Teton	Kitchen renovations
Circle Elementary	McCone	Replace fire alarm and emergency lighting at Redwater Elementary
Colstrip High School	Rosebud	Temperature control retrofit/HVAC
Columbia Falls High School	Flathead	Replace fire alarm and intercom system
Corvallis K-12 Schools	Ravalli	New Vocational Ed facility
Cut Bank Elementary	Glacier	Boiler replacement
Darby K-12 Schools	Ravalli	Middle School gym replacement
Dawson High School	Dawson	Upgrade pneumatic heating controls to digital controls
Denton Elementary	Fergus	Placement of tile throughout Elementary School to cover asbestos
Dillon Elementary	Beaverhead	HVAC, digital controls, ADA, lighting, building envelope
Drummond Public Schools	Granite	Upgrade boiler and windows and add wall insulation
Dutton Brady K-12 Schools	Teton	Digital control system, retro-commissioning
East Glacier Park Elementary	Glacier	Window replacement, boiler, controls
East Helena Elementary	Lewis & Clark	Replace existing air handling system
Ekalaka Elementary	Carter	Replace elementary school
Ennis K-12 Schools	Madison	Upgrade controls, boiler and water heater at High School
Eureka Elementary	Lincoln	Replace classroom heaters and replace HVAC in the school's gyms
Fair-Mont-Egan Elementary	Flathead	Classroom addition
Fairfield Public Schools	Teton	Safety of outdoor freezer, code compliance issues, rodent control
Flathead High School	Flathead	Abatement & removal of ceiling, fire sprinkler system

2011 Applicants, Continued

Applicant	County	Project Description
Florence Carlton K-12 Schools	Ravalli	Boiler replacement, HVAC upgrade, egress, fire alarms, lighting upgrades
Forsyth Elementary	Rosebud	New boiler and controls system
Fort Benton Public Schools	Chouteau	Boiler replacement
Frazer Public Schools	Valley	Upgrade HVAC controls
Frenchtown K-12 Schools #1	Missoula	Heat pump replacement
Frenchtown K-12 Schools #2	Missoula	Five related energy conservation measures
Fromberg K-12 Schools	Carbon	Phase 1 construction costs for a new Junior-Senior High facility
Galata Elementary	Toole	Clean, insulate and re-coat roof
Geraldine Public Schools	Chouteau	Energy conservation measures
Gilford Colony Elementary	Hill	New school facility
Glasgow K-12 Schools	Dawson	Install new steel doors and frames
Glendive Elementary	Dawson	Upgrade electrical system in Washington Elementary
Grass Range Public Schools	Fergus	Airlock door system, breezeway, enclose unused skylights
Great Falls Public Schools	Cascade	Upgrade fire alarms, egress hardware, line of sight, cameras and intercom
Hamilton K-12 Schools	Ravalli	Asbestos abatement, repair boys bathroom, HVAC controls, sprinkler system
Harlem High Schools	Blaine	Repair of walls, flooring and doors damaged when sewer line ruptured
Havre Elementary	Hill	Addition to allow district to vacate Highland Park North
Helena Elementary	Lewis & Clark	Replace wastewater treatment system at Rossiter Elementary School
Helena Flats Elementary	Flathead	Roof repair for Helena Flats Elementary
Helena High School	Lewis & Clark	Roof replacement at Helena High School
Hellgate Elementary	Missoula	Replace drafty single-pane windows
Hinsdale Public Schools	Valley	Roof replacement on school, shop, and gym
Hobson K-12 Schools	Judith Basin	Boiler replacement and Asbestos Abatement
Hot Springs Public Schools	Sanders	Address problems with existing Old Gym
Huntley Project K-12 Schools	Yellowstone	Incorporate older facilities into new geothermal heat pump system
Jefferson High School	Jefferson	Replace fire alarm and fire door control system
Jordan Elementary	Garfield	Window replacement at Elementary school
Kinsey Elementary	Custer	New HVAC system
Lame Deer Public Schools	Rosebud	Energy conservation measures
Laurel High School	Yellowstone	Re-roof Laurel HS, install DDC system, replace gym lighting
Lewistown Elementary #1	Fergus	Replace outdated fire alarm system
Lewistown Elementary #2	Fergus	Lighting project at Garfield Elementary
Lima K-12 Schools	Beaverhead	Enclose North entrance to prevent snow & ice build-up and install a ramp
Lincoln K-12 Schools #1	Lewis & Clark	New gym
Lincoln K-12 Schools #2	Lewis & Clark	Lighting upgrades, water heater replacement, walk-in freezer replacement
Livingston Elementary	Park	Roof replacement
Lolo Elementary #1	Missoula	Vehicular, pedestrian & occupant safety (drop-off site, vehicle access loop)
Lolo Elementary #2	Missoula	Code compliance issues (hallways, plumbing)
Lustre Elementary	Valley	Install central ventilation system, DDC system, and kitchen hood
Malta K-12 Schools	Phillips	Replace boiler at elementary school
Manhattan Elementary	Gallatin	Fire alarm replacement, roof replacement, light fixtures
Manhattan High School	Gallatin	Retroactive building commissioning
Marion Elementary	Flathead	Classroom addition

2011 Applicants, Continued

Applicant	County	Project Description
Melstone Public Schools	Musselshell	Upgrade all school computers to Windows 7 and install necessary RAM
Miles City Elementary	Custer	Upgrade HVAC system in Garfield Elementary
Missoula Public Schools	Missoula	Design and install fire sprinkler systems
Monforton Elementary	Gallatin	Install a fire sprinkler system
Montana City Elementary	Jefferson	HVAC and digital controls
Moore Public Schools	Fergus	Addition for weight room with HVAC System
Nashua K-12 Schools	Valley	Boiler replacement
North Star Public Schools	Hill	Fire alarms for High School and Elementary School
Noxon Public Schools	Sanders	Update the alarm system and improve evacuation path
Ophir K-12 Schools	Gallatin	Convert old gymnasium to performing arts center
Paradise Elementary	Sanders	Replace old steam boiler
Pioneer Elementary	Yellowstone	Window replacement
Plains Elementary	Sanders	New building for K-2 students
Polson High School	Lake	Roof replacement, HVAC upgrades, biomass boiler system
Poplar Elementary #1	Roosevelt	Elementary sewer upgrade
Poplar Elementary #2	Roosevelt	Rooftop units
Poplar Elementary #3	Roosevelt	Middle School roof replacement
Poplar High School	Roosevelt	Start a "freshman academy" inside high school to improve graduation rates
Powder River Co High School	Powder River	Asbestos abatement in High School
Power Elementary	Teton	Replace existing roof and address safety concerns
Red Lodge High School	Carbon	Finish new physical education facility at High School
Richey High School	Dawson	New boilers
Roberts K-12 Schools	Carbon	Replace faulty exterior doors
Rocky Boy Public Schools	Hill	Replace generator, structural insulated panel system
Roy K-12 Schools	Fergus	Energy conservation measures.
Shelby Elementary	Toole	Repair building envelope leaking, refill sprinkler system, rework heating controls
Shelby High School	Toole	Digital control system, retro-commissioning
Shepherd Public Schools	Yellowstone	Boiler replacement for High School and Junior High
Sheridan Elementary	Madison	Controls upgrade, cooling upgrade.
Simms High School	Cascade	Upgrade to direct digital controls and replace unit ventilators
Somers Elementary	Flathead	Mold mitigation at Middle School
St Ignatius K-12 Schools	Lake	Install fire sprinkler system to bring expansion up to code
Stanford K-12 Schools	Judith Basin	Replace inefficient steam boiler and temperature controls
Stevensville High School	Ravalli	New building for band and choir facilities
Sun River Valley Elementary	Cascade	Replace failed gas furnaces
Sunburst K-12 Schools	Toole	Installation of air handling units
Superior K-12 Schools	Mineral	Addition to include accessible restrooms, locker rooms and life skills classroom
Sweet Grass Co High School	Sweet Grass	Upgrade HVAC system
Target Range Elementary	Missoula	Upgrade HVAC system
Terry K-12 Schools	Prairie	Repair of roof leak on wood and automotive shop
Thompson Falls Public Schools	Sanders	Entry safety improvements, safety gravel paths, covered sidewalks
Townsend K-12 Schools	Broadwater	Code compliance issues (Air)
Trout Creek Elementary	Sanders	Flooring, handrails, restroom remodel, alarm system

2011 Applicants, Continued

Applicant	County	Project Description
Troy Elementary	Lincoln	Addition to the South side of the Junior High School
Valier Public Schools	Pondera	Boiler replacement in High School, upgrade recirculation pumps in Elementary
Vaughn Elementary	Cascade	New ventilation system
Victor K-12 Schools	Ravalli	Water system upgrade
Whitefish High School	Flathead	Gym, locker rooms, athletic activity areas
Winifred K-12 Schools	Fergus	Replace flat roof on gym
Winnett K-12 Schools	Petroleum	Construction of a shop building for metals/welding program
Woodman Elementary	Missoula	Ground source heat pump installation

APPENDIX B

Quality Schools Project Grant Applicants for the 2013 Biennium

Applicant	County	Project Description
Anaconda High School	Deer Lodge	Relocate Vo-Ed facility
Belgrade High School	Gallatin	Controls Upgrade
Belt Public Schools	Cascade	Ventilation System Upgrade
Big Sandy Public Schools	Chouteau	Lighting Retrofit and Occupancy Sensors
Billings Elementary	Yellowstone	Burlington Elementary School Roof Replacement
Billings High School	Yellowstone	Replace Building Temperature Control System (Energy Management System)
Box Elder Elementary	Hill	Four-classroom addition to the elementary school
Bozeman Elementary	Gallatin	Lighting retrofit
Bozeman High School	Gallatin	Lighting retrofit
Browning High School	Glacier	Completion of Gymnasium
Centerville Public Schools	Cascade	Boiler Replacement
Choteau Public Schools	Teton	Remedy safety issues identified with the district's food service facilities
Colstrip Elementary	Rosebud	Temperature controls upgrade
Corvallis K-12 Schools	Ravalli	Construction of a new vocational facility
Creston Elementary	Flathead	Build a new expanded Elementary school
Darby K-12 Schools	Ravalli	Replace Middle School gym
Dawson High School	Dawson	Digital heating controls
Denton Elementary	Fergus	Replace Boiler
Dillon Elementary	Beaverhead	HVAC unit ventilators
Dutton/Brady K-12 Schools	Teton	Improve indoor air quality
East Helena Elementary	Lewis & Clark	Boiler replacement
Ekalaka Elementary	Carter	New Elementary School
Elder Grove Elementary	Yellowstone	Controls upgrade
Eureka Elementary	Lincoln	Finish heater replacement
Fairfield Public Schools	Teton	Kitchen renovation project
Fair-Mont-Egan Elementary	Flathead	Classroom Addition
Florence-Carlton K-12 Schools	Ravalli	Boiler Replacement
Forsyth Elementary	Rosebud	Energy Efficiency retrofit with new boilers & digital controls
Frazer Public Schools	Valley	Installation of high efficiency boiler
Froid Public Schools	Richland	Boiler Replacement
Frontier Elementary	Roosevelt	Repair or replacement of failing sewer system
Gardiner High School	Park	Energy efficiency upgrades
Geraldine Public Schools	Chouteau	Energy efficiency improvements
Gildford Colony Elementary	Hill	New school building for Gildford Colony
Glasgow K-12 Schools	Valley	Replacement of HVAC System
Grass Range Public Schools	Fergus	Air-lock doors & breezeway
Hamilton K-12 Schools	Ravalli	Boiler & heat distribution system replacement
Helena Elementary	Lewis & Clark	ADA Compliance for 5 Schools
Huntley Project K-12 Schools	Yellowstone	Replace heating system in junior high gym
Laurel High School	Yellowstone	Roof replacement on High School

2013 Applicants, Continued

Applicant	County	Project Description
Libby K-12 Schools	Lincoln	Replace HS boiler
Lincoln K-12 Schools	Lewis & Clark	Construction of a Gym
Livingston Elementary	Park	Replace failing roof
Manhattan Elementary	Gallatin	Replace electrical service and distribution
Miles City Elementary	Custer	Temperature controls upgrade
Missoula Public Schools	Missoula	Install sprinkler systems in Meadow Hill and ALT high School
Monforton Elementary	Gallatin	Improvement of site safety for traffic & pedestrians
Montana City Elementary	Jefferson	Installation of a fire sprinkler system
North Star Public Schools	Hill	Install fire alarm systems
Paradise Elementary	Sanders	Boiler Replacement
Plains Elementary	Sanders	Move classrooms from Wild Horse School (remote campus) to main campus
Polson High School	Lake	Replace roof and rooftop HVAC units
Poplar Elementary	Roosevelt	Replace HVAC roof top units
Rocky Boy Public Schools	Hill	Emergency Generator Replacement
Shelby Elementary	Toole	Correct building envelope leakage
Shelby High School	Toole	Lighting retrofit
Shepherd Public Schools	Yellowstone	Boiler Replacement
Sheridan Elementary	Madison	Digital heating and cooling system for Elementary
Shields Valley Elementary	Park	Lighting upgrade and window replacement
Shields Valley High School	Park	Replace heating system, Windows, & Insulation
Simms High School	Cascade	Upgrade unit ventilators to improve IAQ
Somers Elementary	Flathead	Replace roof at Somers Middle School
Stanford K-12 Schools	Judith Basin	Boiler Replacement
Superior K-12 Schools	Mineral	Life Skills classroom and locker room expansion
Sweet Grass County HS	Sweet Grass	Update/Remodel of Ventilation/ Air Handling System
Terry K-12 Schools	Prairie	Roof replacement and insulation on auto shop
Townsend K-12 Schools	Broadwater	Improve indoor air quality by replacing & correcting existing air handling units
Valier Elementary	Pondera	Boiler Replacement
White Sulphur Springs HS	Meagher	Replace boiler with geothermal heating system
Whitefish High School	Flathead	Phase I redevelopment of HS campus (gym)
Whitehall High School	Jefferson	Roof replacement on High School
Winifred K-12 Schools	Fergus	Heating and ventilation system upgrade
Winnett K-12 Schools	Petroleum	Complete new shop building; purchase equipment
Woodman Elementary	Missoula	Ground Source Heat Pumps

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